

Robert Greene Sterne nald I. Feathers

Brian J. Del Buoi Christine M. Lhulier Rae Lynn Prengaman Jane Shershenovich Lawrence I. Carroll

Registered Patent Agents' Karen R. Markowicz Andrea J. Karnage . Carlson oris A. Matvenko Schwart

Admitted only in Virgin Admitted only in Texas

August 16, 2002

WRITER'S DIRECT NUMBER: (202) 371-2674

Art Unit 2681

INTERNET ADDRESS:

mlee@skgf.com

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Non-Provisional Utility Patent Application

Appl. No. 09/855,851; Filed: May 16, 2001

Apparatus, System, and Method for Down-Converting AUG 2 0 2002

and Up-Converting Electromagnetic Signals

Inventors: Sorrells et al.

Our Ref: 1744.1260001

RECEIVED

Technology Center 2600

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Information Disclosure Statement;
- 2. Form PTO-1449 (56 pages) listing 793 documents;
- 3. Compact Discs labeled "Sterne1B" and "Sterne2B" having stored thereon searchable electronic copies (in PDF format) of each document listed in the PTO-1449, with the exception of Documents AC46-AI46, AA47-AI47, AA48-AI48, AA49-AI49, AA50, AB50, AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19, AK19, AQ51, AR51, AN52-AR52, AN53-AR53, AN54-AR54, AN55-AR55 and AN56 which have not yet been scanned;
- Hard copies of all documents listed on the Form PTO-1449, which copies are enclosed in three boxes; and
- 5. One return postcard.

Commissioner for Patents August 16, 2002 Page 2

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Sterne, Kessler, Goldstein & Fox p.l.l.c.

Michael Q. Lee

Attorney for Applicants Registration No. 35,239

Enclosures

MQL/VLB/sjc ::ODMA\MHODMA\SKGF_DC1;46062;1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells et al.

Appl. No. 09/855,851

Filed: May 16, 2001

For: An

Apparatus, System, And Method for Down-Converting And Up-Converting

Electromagnetic Signals

Confirmation No. 9178

Art Unit: 2681

Examiner: To Be Assigned

Atty. Docket: 1744.1260001

Information Disclosure Statement

Commissioner for Patents Washington, D.C. 20231

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AUG 2 0 2002
Technology Center 2600

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

In addition to providing hard copies of the documents as required by applicable rules, Applicants herewith provide two Compact Discs labeled "Sterne1B" and "Sterne2B" having stored thereon searchable electronic copies (in PDF format) of the documents listed on the PTO-1449. More specifically, the "Sterne1B" CD contains electronic copies of documents AA1-AR1, AA2-AR2, AA3-AR3, AA4-AR4, AA5-AR5, AA6-AR6, AA7-AR7, AA8-AR8, AA9-AR9, AA10-AR10, AA11-AR11, AA12-AR12, AA13-AL13, AN13-AR13, AA14-AI14, AN14-AR14, AA15-AI15, AN15-AR15, AA16-AI16, AN16-AR16, AA17-AI17, AN17-AR17, AA18-AI18, AN18-AR18, AA19-AI19, AN19-AR19, AA20-AI20, AN20-AR20, AA21-AI21, AN21-AR21, AA22-AI22, AN22-AR22, AA23-AI23, AN23-AR23, AA24-AI24, AN24-AR24, AA25-AI25, AN25-AR25, AA26-AI26, AN26-AR26, AA27-AI27, AN27-AR27, AA28-AI28, AN28-AR28, AA29-AI29, AN29-AR29, AA30-AI30, AN30-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR30, AA31-AI31, AN31-AR31, AA32-AI32, AN32-AR32, AA33-AI33, AN33-AR33, AN33-AR33, AA33-AI33, AN33-AR33, AN33-AR

AR33, AA34-AI34, AN34-AR34, AA35-AI35, AN35-AR35, AA36-AI36, AN36-AR36, AA37-AI37, AN37-AR37, AA38-AI38, AN38-AR38, AA39-AI39 and AN39-AR39, and the "Sterne2B" CD contains electronic copies of documents AA40-AI40, AA41-AI41, AA42-AI42, AA43-AI43, AA44-AI44, AA45-AI45, AA46-AB46, AM10, AJ11-AM11, AJ12-AM12, AJ13-AL13, AP50-AR50 and AN51-AP51. Documents AC46-AI46, AA47-AI47, AA48-AI48, AA49-AI49, AA50, AB50, AM13, AJ14-AM14, AJ15-AM15, AJ16-AM16, AJ17-AM17, AJ18-AM18, AJ19, AK19, AQ51, AR51, AN52-AR52, AN53-AR53, AN54-AR54, AN55-AR55 and AN56 have not yet been scanned. The file names on the CDs correspond to the identifiers on the PTO-1449. It is noted that the CDs are being provided in addition to hard copies of the documents for the convenience of the Examiner.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AD1, AL1, AO1, AC2, AF2, AG2, AI2, AC5, AG5, AB6, AF7, AI7, AB8, AF8, AG9, AK9, AO9, AO11, AA12, AE14, AN14, AB15, AE15, AH15, AO15, AF16, AD18, AG18, AB20, AC20, AQ20, AA22, AH22, AI23, AC24, AF26, AC30, AH31, AC32, AA33, AR33, AH34, AP35 and AO48 were included with Petitions to Make Special

pleadings in co-owned related U.S. Patent Nos. 6,061,551, 6,061,555, 6,049,706 and 6,091,940.

Documents AM4, AH6, AL7, AJ9, AM9, AC17, AA20, AG20, AG21, AA24, AD24, AG24, AI31, AA32, AG34, AD36 and AQ37 were cited in searches performed at Applicants' request by the European Patent Office's Searching Authority in the above-referenced co-owned related patents.

Documents AA6, AD6, AO6, AE7, AE8, AA11, AE11, AH11, AI12, AB13, AD13, AH13, AC14, AG14, AE16, AB17, AF19, AD20, AN21, AG23, AH27, AI27, AI28, AH29, AG30, AD37, AR40, AO49 and AQ49 were suggested or identified by potential licensees.

Documents AH5, AH17, AD21, AB34, AE34, AB36, AI36 and AI38 were cited by the Examiner in the above-referenced co-owned related patents.

Documents AR21, AN22-AR22, AN23-23, AN24-AR24, AN25-AR25, AN26-AR26, AN27-AR27, AN28-AR28, AN29-AR29, AN30-AR30, AN31-AR31, AN32-AR32 and AN33-AP33 are press releases issued by assignee ParkerVision, Inc.

Documents AP6-AR6 and AN7-AP7 are copies of Declarations (including Exhibits) made by Messrs. Bultman, Cook, Holtz, Looke, Moses, Parker, and Sorrells, filed in the above-referenced co-owned related patents.

Documents AJ1, AL9, AJ10, AA19, AC25, AB30 and AF32 were cited in search reports in the corresponding foreign applications of the above-referenced co-owned related patents.

Documents AK9, AC17, AD36 and AD40 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/21359, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AM10, AJ11, AK11 and AE40 were listed in a communication issued by the International Preliminary Examination Authority in PCT application serial number PCT/US00/01108, filed January 19, 2000, entitled "Frequency Translation and Embodiments Thereof Such as the Family Radio Service," directed to related subject matter.

Documents AI7, AJ9, AK9, AG20, AG21, AB30 and AI43 were listed in a written opinion issued by the International Preliminary Examination Authority in PCT application serial number PCT/US00/23923, filed October 18, 1999, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AA44, AL11, AM11 and AQ50 were listed in a communication issued by the International Searching Authority in PCT application serial number PCT/US00/09911, filed April 14, 2000, entitled "Method And System For Down-converting an Electromagnetic Signal, And Transforms For Same," directed to related subject matter.

Documents AB44 and AC44 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter.

Documents AD44-AI44 and AA45-AD45 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/261,129, filed March 3, 1999, entitled "Applications of Universal Frequency Translation," directed to related subject matter.

Documents AE45, AF45, AJ12 and AK12 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/27555, filed October 6, 2000, entitled "DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AG45, AH45, AL12 and AM12 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/34771, filed January 21, 2000, entitled "Phase Comparator Using Undersampling," directed to related subject matter.

Documents AI45, AJ13-AL13 and AB46 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US00/27281, filed October 4, 2000, entitled "Frequency Converter and Method," directed to related subject matter.

Document AA46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,580, filed April 16, 1999, entitled "Method and System for Frequency Up-Conversion with a Variety of Transmitted Configurations," directed to related subject matter.

Document AC46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/670,831, filed September 28, 2000, entitled "Universal Frequency Translation, Embodiments Thereof, and a Web Site and Web Pages Directed to Same," directed to related subject matter.

Document AD46 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,095, filed April 16, 1999, entitled "Method and System for Down-Converting an Electromagnetic Signal Having Optimized Switch Structures," directed to related subject matter.

Documents AD35, AE46-AI46 and AA47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,342, filed April 16, 1999, entitled "Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," directed to related subject matter.

Documents AJ1, AK9-AM9, AG28, AB30, AA32, AN52 and AP55 were cited in an Examination Report in co-pending European Patent Application Serial No. 99954905.8, filed October 18, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AM13, AJ14, AK14 and AQ51 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,765, filed June 21, 2000, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AL14, AM14, AJ15 and AK15 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,761, filed June 20, 2000, entitled "Method and System for Frequency Up-conversion," directed to related subject matter.

Documents AL15, AM15, AJ16-AM16 and AJ17-AM17 were cited in an Examination Report in co-pending Japanese Patent Application No. 2000-577,764, filed June 21, 2000, entitled "Applications of Frequency Translation," directed to related subject matter.

Documents AJ18-AL18, AB47, AC47 and AE47-AG47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/489,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter.

Documents AC24 and AD47 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/376,509, filed August 18, 1999, entitled "Method and System for Ensuring Reception of a Communications Signal," directed to related subject matter.

Documents AH47, AI47, AA48-AE48 and AB49 are co-owned patents which are directed to related subject matter.

Documents AI43, AH47 and AH48 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/293,283, filed April 16, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter.

Documents AA38 and AG48 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,091, filed January 3, 2000, entitled "Image-Reject Down-Converter and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AK19 and AF48 were listed in a search report issued by the International Searching Authority in PCT application serial number PCT/US01/15111, filed October 5, 2001, entitled "Method and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AI48 and AA49 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/567,963, filed May 10, 2000, entitled "Frequency Synthesizer Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AL13, AM18, AJ19 and AI45 were cited in an International Search Report in PCT Application Serial No. PCT/US00/31659, filed November 20, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter.

Document AC49 was cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/689,675, filed January 24, 2000, entitled "Bar Code Scanner Using Universal Frequency Translation Technology for Up-Conversion and Down-Conversion," directed to related subject matter.

Documents AD49-AI49 were cited by an Examiner in co-pending U.S. Patent Application Serial No. 09/476,092, filed January 3, 2000, entitled "Analog Zero IF FM Decoder and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Document AA50 is a copy of co-pending U.S. Patent Application Serial No. 09/525,615, filed March 14, 2000, entitled "Method, System and Apparatus for Balanced Frequency Up-Conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. In the copy provided, the claims are shown as amended on June 6, 2001.

Document AB50 is a copy of co-pending U.S. Patent Application Serial No. 10/086,367, filed March 4, 2002, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. In the copy provided, the claims are shown as amended on May 20, 2002.

It is noted that some of these documents could be classified in more than one of the above categories.

The other documents in the PTO-1449 do not fall within the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.
- □ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on

the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

- □ a. I hereby state that each item of information contained in this Information

 Disclosure Statement was cited in a communication from a foreign

 patent office in a counterpart foreign application not more than three

 months prior to the filing of this Information Disclosure Statement.

 37 C.F.R. § 1.97(e)(1).
- □ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ c. Attached is our check no.____ in the amount of ____ in payment of the fee under 37 C.F.R. § 1.17(p).
- □ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. A separate Petition to the Group Director, requesting consideration of this Information Disclosure Statement, is concurrently submitted herewith, along with our Check No.

 ______ in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(i).
 - □ a. I hereby state that each item of information contained in this Information

 Disclosure Statement was cited in a communication from a foreign

 patent office in a counterpart foreign application not more than three

 months prior to the filing of this Information Disclosure Statement.

 37 C.F.R. § 1.97(e)(1).
 - □ b. I hereby state that no item of information in this Information Disclosure

 Statement was cited in a communication from a foreign patent office
 in a counterpart foreign application and, to my knowledge after
 making reasonable inquiry, was known to any individual designated

- in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- □ 4. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- ∑ 5. Concise explanations of the relevance of the non-English language documents AJ1,
 AK1, AJ6, AK7, AJ8-AL8, AK11-AM11, AJ12, AM13, AJ14-AM14, AJ15 AM15, AJ16-AM16, AJ17-AM17, AJ18-AL18, AQ50 and AQ51 appear
 below:
 - Document AJ1 (DE 42 37 692 C1) appears to be a receiver for a digital radio signal. The corresponding U.S. Patent No. 5,493,721 is enclosed as document AG28 on the attached PTO-1449.
 - Document AK1 (EP 0 035 166 A1) appears to describe a digitized receiver. A copy of the English language abstract of document AK1 is enclosed as document AQ8 on the attached PTO-1449.
 - Document AJ6 (EP 0 785 635 A1) appears to describe a method and apparatus for frequency diversity transmission using a plurality of uncorrelated carriers. A copy of the English language abstract of document AJ6 is enclosed as document AP8 on the attached PTO-1449.
 - Document AK7 (FR 2 743 231 A1) is the corresponding French application of document AJ6 (EP 0 785 635 A1), which is described above.
 - Document AJ8 (JP 2-39632) appears to describe a transmitter for frequency diversity. A copy of the English language abstract of document AJ8 is enclosed as document AO8 on the attached PTO-1449.
 - Document AK8 (JP 2-131629) appears to describe a transmitter-receiver for frequency diversity. A copy of the English language abstract of document AK8 is enclosed as document AN8 on the attached PTO-1449.

- Document AL8 (JP 2-276351) appears to describe an FSK demodulating circuit. A copy of the English language abstract of document AL8 is enclosed as document AR7 on the attached PTO-1449.
- Document AK11 (FR 2245130) appears to describe a converter. A partial English language translation of document AK11 is enclosed as document AP50 on the attached PTO-1449.
- Document AL11 (DE 3541031) appears to describe a method and device for demodulating high-frequency modulated signals. An English translation of document AL11 is enclosed as document AR50 on the attached PTO-1449.
- Document AM11 (EP 0 732 803) appears to describe a procedure and device for demodulation by sampling. An English translation of document AM11 is enclosed as document AN51 on the attached PTO-1449.
- Document AJ12 (DE 19735798) appears to describe a transceiver. An English translation of document AJ12 is enclosed as document AP51 on the attached PTO-1449.
- Document AM13 (JP 56-114451) appears to describe a system for diversity radio transmission. The corresponding U.S. Patent No. 4,363,132 is enclosed as document AF8 on the attached PTO-1449.
- Document AJ14 (JP 8-32556) appears to describe a data transmitter-receiver. A copy of the English language abstract of document AJ14 is enclosed as document AO52 on the attached PTO-1449.
- Document AK14 (JP 8-139524) appears to describe a frequency converting circuit and radio communication device. A copy of the English language abstract of document AK14 is enclosed as document AP52 on the attached PTO-1449.
- Document AL14 (JP 59-144249) appears to describe a pulse signal transmission system. A copy of the English language abstract of document AL14 is enclosed as document AQ52 on the attached PTO-1449.
- Document AM14 (JP 63-54002) appears to describe a microwave burst signal generator which incorporates a FET frequency multiplier. A copy of the

- English language abstract of document AM14 is enclosed as document AR52 on the attached PTO-1449.
- Document AJ15 (JP 6-237276) appears to describe a quadrature modulator. A copy of the English language abstract of document AJ15 is enclosed as document AN53 on the attached PTO-1449.
- Document AK15 (JP 8-23359) appears to describe a digital quadrature modulation device. A copy of the English language abstract of document AK15 is enclosed as document AO53 on the attached PTO-1449.
- Document AL15 (JP 47-2314) appears to describe a demodulator. An English language translation of document AL15 is enclosed as document AP53 on the attached PTO-1449.
- Document AM15 (JP 58-7903) appears to describe a switched capacitor modulator.

 A partial English language translation of document AM15 is enclosed as document AQ53 on the attached PTO-1449.
- Document AJ16 (JP 58-133004) appears to describe an amplitude detector. A copy of the English language abstract of document AJ16 is enclosed as document AR53 on the attached PTO-1449.
- Document AK16 (JP 60-58705) appears to describe a frequency converting circuit.

 A copy of the English language abstract of document AK16 is enclosed as document AN54 on the attached PTO-1449.
- Document AL16 (JP 4-123614) appears to describe a level converting circuit. A copy of the English language abstract of document AL16 is enclosed as document AO54 on the attached PTO-1449.
- Document AM16 (JP 4-127601) appears to describe a frequency conversion circuit.

 A copy of the English language abstract of document AM16 is enclosed as document AP54 on the attached PTO-1449.
- Document AJ17 (JP 5-175730) appears to describe a time division direct receiver.

 A copy of the English language abstract of document AJ17 is enclosed as document AQ54 on the attached PTO-1449.

- Document AK17 (JP 5-175734) appears to describe an FM demodulator. A copy of the English language abstract of document AK17 is enclosed as document AR54 on the attached PTO-1449.
- Document AL17 (JP 7-154344) appears to describe a receiver for receiving modulated carrier signals and an IQ mixer/demodulator using it's receiving constitution. A copy of the English language abstract of document AL17 is enclosed as document AN55 on the attached PTO-1449.
- Document AM17 (JP 7-307620) appears to describe a bottom detection circuit. A copy of the English language abstract of document AM17 is enclosed as document AO55 on the attached PTO-1449.
- Document AJ18 (JP 55-66057) appears to describe a bar-code detection circuit. A copy of the English language abstract of document AJ18 is enclosed as document AQ55 on the attached PTO-1449.
- Document AK18 (JP 63-65587) appears to describe a wireless light pen device. A copy of the English language abstract of document AK18 is enclosed as document AR55 on the attached PTO-1449.
- Document AL18 (JP 63-153691) appears to describe a data transfer for a semiconductor data carrier system. A copy of the English language abstract of document AL18 is enclosed as document AN56 on the attached PTO-1449.
- Document AQ50 (Fest *et al.*) appears to discuss analog-digital converters. An English translation of document AQ50 is enclosed as document AO51 on the attached PTO-1449.
- Document AQ51 (Miki *et al.*) appears to describe modulation systems. A partial English-language translation of document AQ51 is enclosed as document AR51 on the attached PTO-1449.

□ 6.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C.
	§ 120. Thus, copies of these documents are not attached. 37 C.F.R.
	§ 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

ERME KESSLER, GOLDSTEIN & FOX P.L.L.C.

Attorney for Applicants Registration No. 35,239

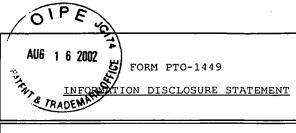
1100 New York Avenue, N.W.

Suite 600

Washington, D.C. 20005-3934

(202) 371-2600

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ATTY. DOCKET NO.

1744.1260001

APPLICATION NO.
09/855,851

APPLICANT
Sorrells et al.

FILING DATE

GROUP

TRADE							y 16, 20			2681				
					U.S. P	ATEN	T DOCUME	NTS						
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	ΙE			CLASS	SUB- CLASS	FILING DATE		
	AA1	2,0	57,613	10/1	936	Gard	Iner			250	8			
	AB1	2,24	41,078	05/1	941	Vree	land			179	15			
	AC1	2,2	70,385	01/1	942	Skillr	man	RECE	IVE	79	15			
	AD1	2,28	33,575	05/19	942	Roberts 2 Earp AUG 2 0 2002		250	6					
	AE1	2,3	58,152	09/1	944_			UK ₁₇₉	171.5					
	AF1	2,4	10,350	10/19	946	Labir	n et al.	obpology C		179	15			
	AG1	2,45	51,430	10/19	948	Baro	ne	chnology C	enter	250	8			
	AH1	2,46	52,069	02/1	949	Chat			250	17				
	Al1	Al1 2,462,181		02/1949		Gros	selfinger			250	17			
					FOREIGN	N PATI	ENT DOCU	MENTS						
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTR	Y		CLASS	SUB- CLASS	TRANSLATION		
	AJ1 DE 42 37 692 C1				03/1994		DE		H04B	1/26	No			
	AK1	EP	0 035 166 A1	035 166 A1			EP EP		H04B	1/26	No			
	AL1	EP	0 193 899 B1		06/1990				G01S	7/52	N/A			
	AM1	EP	0 380 351 A2		08/1990		EP			нозн	17/04	N/A		
			ОТНЕ	R (In	cluding Autl	hor, Ti	itle, Date, F	Pertinent Pag	jes, e	tc.)				
	AN	1	Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," Fourth International Conference on Satellite Systems for Mobile Communications and Navigation, IEE, pp. 147-153 (October 17-19, 1988).											
	AO	1		Akers, N.P. et al., "RF Sampling Gates: a Brief Review," <i>IEE Proceedings</i> , IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).										
	AP	1	Al-Ahmad, H. Techniques fo IEE, pp. 4/1-4	or CEF	RS and T-SA	T," <i>Ele</i>	quency Corr ectronics Di	rection for a l	Non-G uium (eostationary on Low Nois	/ Communica e Oscillators	tions Satellite. and Synthesizers,		
	AQ	1		Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communications, IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).										
	AR	1	Allan, D.W., "					dards," <i>Proce</i>	eding	s Of The IE	EE Special Is	sue on Frequency		
EXAMINER		<u> </u>	<u> </u>	-						DATE CON	SIDERED			

Page 2 of 56 ATTY. DOCKET NO. APPLICATION NO. 09/855,851 1744.1260001 FORM PTO-1449 APPLICANT Sorrells et al. MATION DISCLOSURE STATEMENT FILING DATE GROUP 2681 May 16, 2001 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME CLASS SUB-FILING DATE CLASS NUMBER 06/1949 44 AA2 2,472,798 Fredendall 178 AB2 250 8 2,497,859 02/1950 Boughtwood et al. RECEIVE 41 AC2 2,499,279 02/1950 Peterson 332 AD2 Hobbs 343 176 2,802,208 08/1957 AUG 2 0 AE2 2,985,875 05/1961 Grisdale et al. 343 100 250 17 AF2 Foulkes 3,023,309 02/1962 fechnology Center 2 AG2 Sweeney et al. 343 200 3,069,679 12/1962 AH2 3,104,393 09/1963 343 200 Vogelman AI2 3,114,106 12/1963 McManus 325 56 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION CLASS AJ2 EP 0 380 351 A3 02/1991 FP H03H 17/04 N/A AK2 02/1991 ΕP 33/36 N/A EP 0 411 840 A2 G01R AL₂ EP 0 411 840 A3 07/1991 EP G01R 33/36 N/A AM₂ EP 0 411 840 B1 10/1995 FP G01R 33/36 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Allstot, D.J. et al., "MOS Switched Capacitor Ladder Filters," IEEE Journal of Solid-State Circuits, IEEE, Vol. ΑN 2 SC-13, No. 6, pp. 806-814 (December 1978). Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor AO 2 Filtering Systems," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983). Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," ΑP 2 Proceedings Of the IEEE, IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997). Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," *Telecommunications and Radio Engineering*, Scripta Technica, Vol. AQ 2

EXAMINER DATE CONSIDERED

Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

43, No. 12, pp. 87-90 (December 1988).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," Optics Communications, North-Holland

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	AA3	3,11	8,117	01/19	964	King	et al.	33:	2	22	
	AB3	3,22	6,643	12/19	965	McN	air	32	5	40	
	AC3	3,25	8,694	06/19	966	She	oherd	32	5	145	
	AD3	3,38	3,598	05/19	968	Sand	ders	32	5	163REC	EIVED
	AE3	3,38	4,822	05/19	968	Miya	gi	32	5	30	
	AF3	3,45	4,718	07/19	969	Perr	eault	178	8	66 AUG	2 0 2002
	AG3	3,52	3,291	08/19	970	Pieri	et	340) .	-347	_
	AH3	3.54	8,342	12/19	970	Max	ev	33:	2	lecnnolog	Center 2600
	AI3		5,428	01/19	971	Perr	eault	32		320	
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	AJ3	EP (0 423 718 A2		04/1991		EP	но	4N	7/01	N/A
	AK3	EP (0 423 718 A3		08/1992		EP	НО	4N	7/01	N/A
	AL3	EP (0 486 095 A1		05/1992		EP	но	3D	3/00	N/A
	AM3	EP () 486 095 B1		02/1997		EP	но	3D	3/00	N/A
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	AN	<u>3</u>	Austin, J. et a European Mid 1988).	l., "Do	oppler Correct ve Conferenc	etion o e, Mic	f the Telecommunications and the telecommunications are the telecommunicati	on Payload O d Publishers I	scillators Ltd., pp.	in the UK T- 851-857 (Sep	SAT," <i>18th</i> otember 12 - 15,
	AO	<u>3</u>					onic switching and gatin 101-103 (February 1,		Applied i	Physics Lette	ers, American
	АР	<u>3</u>	Baher, H., "Tr and Systems,	ansfei IEEE	r Functions fo Circuits and	or Sw Syste	tched-Capacitor and W ems Society, Vol. CAS-	Vave Digital F -33, No. 11, p	ilters," <i>IE</i> p. 1138-	EEE Transact 1142 (Novem	ions on Circuits ber 1986).
	AQ	<u>3</u>	Baines, R., "T (May 1995).	he DS	SP Bottleneck	<," <i>IEE</i>	EE Communications Ma	agazine, IEEE	Commu	inications So	ciety, pp. 46-54
	AR	<u>3</u>	Banjo, O.P. ai Electronics Le	nd Vila	ar, E., "Binar IEE, Vol. 21,	y Erro	r Probabilities on Earth 7, pp. 296-297 (March)	n-Space Links 28, 1985).	Subject	to Scintillatio	n Fading,"

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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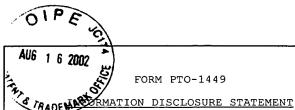
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	AA4	3,6	17,892	11/19	971	Haw	ey et al.	32	25	145			
	AB4	3,6	21,402	11/19	971	Gardner		33	28	37			
	AC4	3,6	23,160	11/19	971	Giles	et al.	34	40	347 DA 203 REC			
	AD4	3,6	26,417	12/19	971	Gilbe	ert	34	13		EWED		
	AE4	3,62	29,696	12/19	971	Barte	elink	32	24	57 R	LIVED		
	AF4	3,66	62,268	05/19	72	Gans	Gans et al. Bello et al.		25	56 AUG	? 0 2002		
	AG4	3,68	89,841	09/19	72	Bello			25	39			
	AH4	3,7	14,577			Haye	s	32	25	i e stinology	Center 2600		
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	AJ4	EP	0 512 748 A2		11/1992		EP	н	04N	9/64	N/		
	AK4	EP	0 512 748 A3		07/1993		EP	H	04 N	9/64	N/		
	AL4	EP	0 512 748 B1		11/1998		EP	Н	04N	9/64	N/		
	AM4	EP	0 548 542 A1		06/1993	,	EP	H	03B	19/14	N//		
	OTHER (I				ludina Autl	nor. T	tle, Date, Pertinent Page	s. etc.)		<u> </u>			
	AN	4	Banjo, O.P. and Parameters," F pp. 277-280 (M	ifth li	nternational	Confe	dence of Slant Path Amplitrence on Antennas and Pr	tude Scir opagatio	itillations n (ICAP	s on Various M 87) Part 2: Pro	eteorological opagation, IEE,		
	AO	4	Paths and Impa	act or	n Communic	ation	nt and Modeling of Amplitu Systems," <i>IEEE Transactio</i> 780 (August 1986).	ude Scint ons on C	illations ommunic	on Low-Elevat cations, IEEE (ion Earth-Space Communications		
	АР	<u>4</u>	Banjo, O.P. et a	al., ''l ional	Fropospheric Conference	Ampl on Ar	itude Spectra Due to Abso tennas and Propagation (i	orption ar ICAP 85)	nd Scatte , IEE, pp	ering in Earth-S b. 77-82 (April	Space Paths," 16-19, 1985).		
	AQ	<u>4</u>	Basili,P. et al., and Propagatio	Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).									
	AR	4	Basili, P. et al., "Observation of High C ² and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).										
EXAMINER						-		DAT	E CONS	SIDERED			



MATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
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			DAT	E	NAM	E		CLASS	SUB- CLASS	microwave		
AA5	3,735,	,048	05/19	973	Toms	sa et al.		179	15 BM			
AB5			04/19	974	Thon	npson		325	146			
AC5			02/1	975			· · · ·	332	45			
AD5	+		04/1	976	Sadle	er RE	Ò.	325	31			
AE5	 	,	06/19	976	Batz	Λ.	Eliza	325	31	-		
			09/1	976	Bickford 62		325	30				
AG5			10/19	976	Baue	r CChnore	2000	235	150.53			
AH5	3,991,			1/1976		a Single Ca		179	15 FD			
AI5			01/1977 Snijders et al.		332	10						
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AJ5 EP		632 288 A2	01/1995			EP		G01S	13/75	N/		
AK5 EP 0		532 288 A3		07/1996 02/1996		EP		G01S	13/75	N/.		
AL5	EP 0 6	EP 0 696 854 A1				EP		H04B	1/26	N/		
AM5	EP 0 7	782 275 A2		07/1997		EP		H04B	7/02	N/		
			OTHER (Including Author, Title, Date, Pertinent Pages, etc.)									
AO	5	Region," <i>Electronics Letters</i> , IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985). Burgueño, A. <i>et al.</i> , "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>annales des tèlècommunications</i> , International Union of Radio Science, pp. 522-527										
Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall												
AQ	<u> 5</u> (Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 297-301 (April 4-7, 1989).										
Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).												
						* .	<u> </u>	DATE CONS				
	AB5 AC5 AD5 AE5 AF5 AG5 AH5 AI5 AJ5 AK5 AL5 AM5 AN AO AP	AA5 3,735 AB5 3,806 AC5 3,868 AD5 3,949 AE5 3,967 AF5 3,980 AG5 3,987 AH5 3,991 AI5 4,003 DOCL AJ5 EP 0 6 AK5 EP 0 6 AK5 EP 0 6 AK5 EP 0 6 AM5 EP 0 6 AM5 EP 0 6 AM 5 AM 6 AM 6 AM 6 AM 6 AM 7 AM 7	AB5 3,806,811 AC5 3,868,601 AD5 3,949,300 AE5 3,967,202 AF5 3,980,945 AG5 3,987,280 AH5 3,991,277 AI5 4,003,002 DOCUMENT NUMI AJ5 EP 0 632 288 A2 AK5 EP 0 632 288 A3 AL5 EP 0 696 854 A1 AM5 EP 0 782 275 A2 OTHE AN 5 Blakey, J.R. 6 Region," Elector (September/Communication (September/Commun	NUMBER	DOCUMENT NUMBER	DOCUMENT NUMBER	NUMBER	DOCUMENT NUMBER	DOCUMENT NUMBER DATE NAME CLASS	DOCUMENT NUMBER DATE NAME CLASS SUBCLASS		



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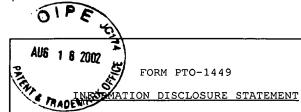
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	AA6	4,01	3,966	03/19	Campbell		obell		325	363			
	AB6	4,01	9,140	04/19	977	Swer	dlow		322	65			
	AC6	4,03	5,732	07/19	977	Lohrı	mann 🛌		325	446			
	AD6	4,04	7,121	09/19	977	Campbell		331	76				
	AE6	4,06	6,841	01/19	978	Your	g A 11	'	11/20	66 R			
	AF6	4,06	6,919	01/19	978	Hunt	ngton >	620	307	353			
	AG6	4,08	1,748	03/19	78	Batz	חוסתלים		<uq25< td=""><td>56</td><td></td></uq25<>	56			
	AH6	4,13	0,765	12/19	978 Arako		Huntington Batz Arakelian et al. Van Gerwen et al.		307	220 R			
	Al6	4,13	0,806	12/1978		Van	Gerwen <i>et al</i> .	•0/	<6 ₈₂₅	487			
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	AJ6	EP 0 785 635 A1			07/1997		EP		H04B	1/713	No		
	AK6	EP (EP 0 795 978 A2		09/1997 04/1998.		EP		H04L	5/06	N/A		
	AL6	EP (0 837 565 A1	EP				H04B	1/69	N/A			
	AM6	EP (862 274 A1		09/1998		EP		НОЗМ	1/06	N/A		
	L.		OTH	ED (In	Judina Aut	hor T	tle, Date, Pertinent	Pages 4			I		
	AN	6	No. 12, pp. 1 Chan, P. et a	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters,</i> IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998). Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits</i>									
	AP	<u>6</u>	Copy of Decl	claration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to ect matter, 2 pages.									
	AQ	<u>6</u>	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter, 2 pages.										
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	AA7	4,14	2,155	02/19	979	Adachi		325	47	
	AB7	4,17	0,764	10/1979		Salz et al.		332	17	
	AC7	4,20	4,171	05/19	980	Sutphin, Jr.		328	167	
	AD7	4,21	0,872	07/19	980	Gregorian		330	9	
	AE7	4,24	5,355	01/19	981	Pasc	oe et al. RECEIVED	455	326	
	AF7	4,25	3,066	02/19	981		er et al.	329	50	
	AG7	4,25	3,069	02/19	981	Noss		330	107	
	AH7	4,30	8,614	12/19	981	Fishe	er et-el-	370	119	
	AI7	4,32	0,361	03/1982		Kikke	er et felennology Center 2600 ert	332	16 R	
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	AK7 FR		743 231 A1	07/1997		FR		H04B	7/12	No
	AL7	GB 2	2 161 344 A	01/1986			GB	H04B	7/12	N/A
	AM7	GB 2	2 215 945 A		09/1989		GB	H04L	27/00	N/A
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	AO	7	Copy of Declarelated subject	aration ct matt	of Charley I er, 2 pages.	D. Mos	ses, Jr. filed in patent applicatio	n Ser. No. 0	09/176,022, w	hich is directed to
	AP	7	Copy of Deck application Se	aration er. No.	of Jeffrey L. 09/176,022,	. Parke , which	er and David F. Sorrells, with at n is directed to related subject n	tachment E natter, 130 p	xhibit 1, filed pages.	in patent
	AQ	7	Dewey, R.J. a Implemented	and Co Radios	ollier, C.J., "N s, IEE, pp. 3/	/Julti-N /1-3/5	lode Radio Receiver," <i>Electroni</i> (October 18, 1985).	cs Division	Colloquium o	n Digitally
	AR	<u>7</u>	DIALOG File Date of public				guage Patent Abstract for JP 2	-276351, 1	page (Novem	ber 13, 1990 -
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	AA8	4,32	20,536	03/19	982	Dietr	ich	455	325			
	AB8	4,34	16,477	08/19	982	Gordy		455	257			
	AC8	4,35	55,401	10/19	982	Ikoma et al.			5			
	AD8	4,35	56,558	10/1982		Owe	n <i>et al.</i>	364	724			
	AE8	4,36	60,867	11/19			Gonda PCO-		158			
	AF8	4,36	63,132	12/19			RECEIVED	455	52			
	AG8	4,36	55,217	12/19	1982 Berge	eretal. Alica o o-	333	165				
	AH8	4.37	70,572	01/19	983	Ť	and et al. 2002	307	353	M*4*		
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	AJ8 JP 2-39632				02/1990		JP	H04B	7/12	No		
	AK8	JP 2	2-131629		05/1990		JP	H04B	7/12	No		
,	AL8	JP 2	2-276351		11/1990		JP		27/22	No		
	AM8	wo	80/01633 A1	•••	08/1980		PCT	H04J	1/08	N/A		
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	AO	<u>8</u>	DIALOG File publication of			sh Lan	guage Patent Abstract for JP	2-39632, 1 p	age (Februar	y 8, 1990 - Date o		
	AP	<u>8</u>	DIALOG File (December 20	348 (E 5, 199	European Pa 6 - Date of p	tents) ublicat	English Language Patent Absolion of application).	ract for EP 0	785 635 A1,	3 pages		
	AQ	<u>8</u>	DIALOG File 18, 1981 - Da				English Language Patent Absteation).	ract for EP 3	5166 A1, 2 p	ages (February		
	AR	<u>8</u>	"DSO takes s 77 and 79 (M			3hz," <i>E</i>	Electronic Engineering, Morgar	Grampian F	Publishers, Vo	ol. 59, No. 723, pp		
EXAMINER								DATE CONS	SIDERED			



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APPLICANT Sorrells et al.

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	AA9	4,39	2,255	07/19	983	Del 0	Giudice	455	328				
	AB9	4,43	0,629	02/19			333	165					
_	AC9	4,44	6,438	05/19			328	127					
	AD9	4,45	6,990	06/19	984	4 Fisher et al.		370	119				
	AE9	4,47	2,785	09/19	984	Kası	93 RECEIVED	364	718				
	AF9	4,47	9,226	10/19	984	Prab	hu <i>et al</i> .	375	1				
	AG9	4,48	1,490	11/19	984	Huntley AUG 2 0 2002		332	41				
	AH9	AH9 4,481,642		11/1984				375	9				
	Al9 4,485,488		5,488	11/1984		Houd	ion Technology Center 2600	455	327				
•													
EXAMINER INITIAL		DOC	DOCUMENT NUMB		DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION			
	AJ9	WO 94/05087 A1			03/1994		PCT	нозм	1/00	N//			
	AK9	wo) 96/02977 A1) 96/08078 A1				PCT	H04B	1/26	N/A			
	AL9	wo			03/1996		PCT	H03D	3/00	N//			
	АМ9	wo	96/39750 A1		12/1996		PCT	Н04В	1/26	N/A			
			OTUE	D (In	Judina Aut	or T	tle, Date, Pertinent Pages, et	2 \		<u></u>			
	AN	9	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978). Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).										
	AP	9	Microwave O	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," CPEM 82 Digest: Conference on Precision Electromagnetic Measurements, IEEE, pp. M-10 and M-11 (1982).									
	AQ	9					main Analysis of Frequency Sta nce on Precision Electromagn						
	AR	9	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).										
EXAMINER	1	<u> </u>	L		· — — — — — — — — — — — — — — — — — — —			DATE CONS	SIDERED				

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAN	IE	CLASS	SUB- CLASS	FILING DATE		
	AA10	4,50	04,803	03/19	985	Lee	et al.	332	31 R			
	AB10	4,51	17,519	05/1985 Mukaiyama		329	126					
	AC10	4,51	17,520	05/19	985	Oga		329	145			
	AD10	4,51	18,935	05/19	985	van	RoermundRECEIVED	333	173			
	AE10	4,52	21,892	06/19	985	Vano	ce et al.	375	88	<u> </u>		
	AF10	4,56	3,773	07/19	986	Dixo	n, Jr. et al. AUG 2 0 2002	455	327	ļ		
	AG10	4,57	7,157	03/19	986	Reed	1	329	50			
	AH10	4,58	33,239	04/19	986 Var		Vance Technology Center 2600		94			
	Al10	4,59	1,736	05/1986		Hirad	Hirao et al.		267			
					FOREIGN	PAT	ENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUM					COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
	AJ10	wo	WO 97/38490 A1 WO 98/00953 A1 WO 98/24201 A1		10/1997		РСТ	H03K	7/00	N/A		
	AK10	wo			01/1998		PCT	H04L	27/26	N/A		
	AL10	wo			06/1998		PCT	H04H	1/00	N/A		
	AM10	EP (0 099 265 A1		01/1984		EP	H03D	3/04	N/A		
		٠	OTUE	:D /los		T	I itle, Date, Pertinent Pages, et	<u> </u>				
	AN	<u>10</u>	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).									
	AO	<u>10</u>					me statistics of rain attenuation on, IEE, Vol. 135, Pt. H, No. 6,					
	AP	<u>10</u>	Gibbins, C.J. Vol. 134, Pt. I				etre-wave propagation through oril 1987).	hydrocarbor	ı flame," <i>IEE</i>	Proceedings, IEE,		
	AQ	<u>10</u>	Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).									
	AR	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).										
EXAMINER			<u></u>				T	DATE CONS	SIDERED			

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EXAMINER INITIAL			CUMENT MBER	DAT	Ē	NAM	E			CLASS	SUB- CLASS	FILING DATE
	AA11	4,60	2,220	07/19	986	Kurit	ara			331	19	
	AB11	4,60	03,300	07/19	986	Well	es, II <i>e<u>t</u> a</i>	a <u>/.</u>		329	50	
	AC11	4,61	12,464	09/19	986	Ishik	awa <i>et a</i>	I.		307	496	
	AD11	4,61	12,518	09/19	986	Gans	et al.	_		332	21	
	AE11	4,61	16,191	10/19	986	Gala	ni <i>et al.</i>	R	ECEN	331	4	
	AF11	4,62	21,217	11/19	986	Saxe	et al.		-OLIV	□ ₆ 2 ₅	1	
	AG11	4,62	28,517	12/19	986	Schv	Schwarz et al. AUG 2 0 2			nm375	40	
	AH11	4,63	34,998	01/19	987	Craw	ford		_	υψ <u>έ</u> 1331	1 A	
	Al11	4,64	18,021	03/19	987	Albe	krack	recnno	logy Cente	er paga	157	Ī
					FOREIGN	PAT	ENT DO					
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUN	TRY		CLASS	SUB- CLASS	TRANSLATION
	AJ11	EP (0 560 228 A1		09/1993		EP			H03D	7/12	N/A
	AK11	FR:	2 245 130		04/1975		FR	· · · · ·		H03K	5/13	Yes (See AP50
	AL11	DE:	35 41 031 A1		05/1986		DE			H03D	3/00	Yes (See AR50
	AM11	EP (732 803 A1		09/1996		EP			H03D	3/00	Yes (See AN51)
			ОТНЕ	R (Inc	luding Autl	hor, T	tle, Date	e, Pertine	nt Pages, e	etc.)		
	AN	<u>11</u>	Gregorian, R. 941-966 (Aug			Capaci	tor Circu	iit Design	," <i>Proceedir</i>	ngs of the IEE	E, IEEE, Vol	. 71, No. 8, pp.
	AO	<u>11</u>	Groshong et 67-68, 70, 73					Simplify D	igital Radio	," Electronic L	<i>Design</i> , Pento	on Publishing, pp.
	АР	11	Grove, W.M., Microwave Th	"Sam neory a	pling for Osc and Techniqu	cillosco ues, lE	ppes and EEE, pp.	Other RI 629-635	Systems: (December	Dc through X- 1966).	-Band," <i>IEEE</i>	Transactions on
	AQ	11	Haddon, J. et Propagation,					Scintillati	ons on a Sa	atellite Down-	Link at X-Bar	nd," <i>Antennas and</i>
	AR	11	Haddon, J. ar Paths and the 34, No. 5, pp.	Influe	nce of Anter	nna Ap	nduced M perture,"	ficrowave IEEE Tra	Scintillations of	ns from Clear n Antennas a	Air and Rain	on Earth Space on, IEEE, Vol. AP-
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA12	4,65	1,034	03/19	987	Sato		307	556	
	AB12	4,67	5,882	06/19	987	Lillie	et al.	375	80	
	AC12	4,68	8,253	08/19	987	Gum	m	381	7	
	AD12	4,71	6,376	12/19	987	Daud	delin RECENTED	329	107	
	AE12	4,71	6,388	12/19	987	Jaco	bs TEOLIVED	333	173	
	AF12	4,71	8,113	01/19	988	Roth	er et al. AUG 2 0 2002	455	209	
	AG12	4,72	6,041	02/19	988	Proh	aska <i>et al.</i>	375	91	
	AH12	1	3,403	03/19	988	Simo	ne Technology Center 260	1375	103	
	Al12	—	4,591	03/19	988	Ichits	· · · · · · · · · · · · · · · · · · ·	307	219.1	· ·
					ENT DOCUMENTS					
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ12	DE '	197 35 798 C1		07/1998		DE	H04L	27/00	Yes (See AP51
	AK12	wo	98/40968 A2&	43	09/1998		PCT	H03L	7/08	N/A
	AL12	EP () 529 836 A1		03/1993		EP	H03L	7/089	N/A
	AM12	EP 0	795 955 A2&A	\3	09/1997		EP	H03D	13/00	N/A
			ОТНЕ	R (inc	cluding Autl	hor, T	tle, Date, Pertinent Pages, et	:.)		
	AN	<u>12</u>	Hafdallah, H. 4, 1988).	et al.,	"2-4 Ghz ME	ESFET	Sampler," <i>Electronics Letters</i> ,	IEE, Vol. 24	4, No. 3, pp.	151-153 (February
	AO	<u>12</u>					ase Scintillation Measurements 7, pp. 287-289 (April 1, 1982).	on 8-2 km L	.ine-Of-Sight	Path at 30 Ghz,"
	AP	<u>12</u>	Hewitt, A. et a for Telecomm	al., "Ar nunicat	n 18 Ghz Wid tion Transmis	debane ssion 3	d LOS Multipath Experiment," <i>Ir</i> Systems - MTTS 85, IEE, pp. 11	iternational 2-116 (Nov	Conference (ember 27-28	on Measurements , 1985)
	AQ	12		ts," <i>IEI</i>	EE Transacti		pproach to the Identification of In Communications, IEEE Comm			
-	AR	12	Hewitt, A. and Measurement 7, pp. 789-79	t Tech	niques," <i>IEE</i>	ve fadi E Trai	ng on LOS Microwave Links: C nsactions on Communications, I	lassical and EEE Comm	Spread-Spe	ctrum ociety, Vol. 36, No
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E			CLAS	S SUB- CLASS	FILING DATE
	AA13	4,73	37,969	04/19	988	Stee	et al.			375	67	
	AB13	4,74	3,858	05/19	988	Ever	ard			330	10	
	AC13	4,74	5,463	05/19	988	Lu		RFC	EIVE	358	23	
	AD13	4,75	1,468	06/19	988	Agos				328	133	
	AE13	4,75	7,538	07/19	988	Zink		AUG 2	2 0 200	7 381	7	
	AF13	4,76	8,187	08/19	988	Mars		_		370	69.1	
	AG13	4,76	9,612	09/19	988	Tama	akoshi <i>et al</i>	inology	Center 2	606 28	167	
	AH13	4,78	5,463	11/19	988	Janc	et al.			375	1	
	Al13	4,79	1,584	12/19	988	Gret	enkamp, J	r.		364	525	
			·		FOREIGN	PATI	ENT DOCU	MENTS				
EXAMINER INITIAL		DOC	CUMENT NUME	BER	DATE		COUNTR	Y		CLASS	S SUB- CLASS	TRANSLATIO
	AJ13	EP (817 369 A2&A	\3	01/1998		EP			H03D	7/00	N/
	AK13	wo	91/18445 A1		11/1991		PCT			H03D	7/18	N/
	AL13	wo	99/23755 A1		05/1999		PCT			H03D	7/16	N/
	AM13	JP 5	6-114451	_	09/1981		JP			H04B	7/02	N
			OTHE	R (Inc	luding Auti	hor, Ti	tle, Date, I	Pertinen	t Pages, e	etc.)	_	
	AN	<u>13</u>	Hospitalier, E Vol. VII, pp. 2			Recor	ding and O	bserving	≀Rapidly V	arying Ph	enomena," So	cience Abstracts, IEI
	AO	<u>13</u>		ne Inst	itution of En	gineer	s Australia				e Signals for E ence, Institutio	Bearing Fault n of Engineers,
	АР	<u>13</u>										ster of Applied tion Services, pp. 1-
	AQ	<u>13</u>	Hung, H-L. A. Sampling Sys	et al., tem,"	"Characteri. IEEE MTT-S	zation S <i>Diges</i>	of Microwa st, IEEE, pp	ve Integ 5. 507-51	rated Circ 10 (1991).	uits Using	An Optical Ph	nase-Locking and
	AR	<u>13</u>										Sampling," <i>IEEE</i> op. 12-19 (January
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					U.S. P.	ATEN	T DOCU	MENTS	3			
EXAMINER INITIAL			CUMENT MBER	DATI	Ē	NAM	E			CLASS	SUB- CLASS	FILING DATE
	AA14	4,80	1,823	01/19	989	Yoko	yama			307	353	
-	AB14	4,80	6,790	02/19	989	Sone				307	353	
-	AC14	4,81	0,904	03/19	989	Craw	ford		-	307	353	
	AD14	4,81	0,976	03/19	989	Cowl	ey et al.			331	117 R	
· · · · · · · · · · · · · · · · · · ·	AE14	4,81	1,362	03/19	989	Yeste	er, Jr. et	al.	PECENA	375	75	
	AF14	4,81	9,252	04/19	989	Chris	topher		ILCLIA	375	122	
	AG14	4,83	3,445	05/19	989	Buch	ele	<u> </u>	AUG 2 0 2	70341	118	
	AH14	4,86	2,121	08/19	989	Hoch	schild e		·~ 6	333	173	
	Al14	4,86	8,654	09/19	989	Juri e	et al.	Techn	ology Cente	r 2858n	133	
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EXAMINER INITIAL		DOC	CUMENT NUME	BER	DATE		COUN	ΓRY		CLASS	SUB- CLASS	TRANSLATION
	AJ14	JP 8	-32556		02/1996		JP			H04L	1/04	No
	AK14	JP 8	-139524		05/1996		JP			H03D	7/00	No
	AL14	JP 5	9-144249		08/1984		JP			H04L	27/00	No
-	AM14	JP 6	3-54002		03/1988		JP			нозв	19/114	No
		1	OTHE	R (Inc	ludina Autl	nor. Ti	tle. Date	. Pertir	nent Pages, e	tc.)		
	AN	<u>14</u>	Janssen, J.M	ngs Ci	n Experimen	es and	System	oic' Osc	Vol. 141, No.	4, pp. 328-33	36 (August 19	
	AP	14		rical B								cies up to about 50 2, No. 3, pp. 73-82
_	AQ	14	Jondral, V.F. June 1996).	et al.,	"Doppler Pro	ofiles fo	or Comm	nunicatio	on Satellites,"	Frequenz, H	erausberger,	pp. 111-116 (May-
<u>.</u>	AR	14	Kaleh, G.K., " Interference,"	A Fred 1995	quency Diver	rsity S _I	oread Sp EEE Con	ectrum	System for Coations Society,	ommunicatio pp. 66-70 (1	n in the Prese 1995).	ence of In-band
EXAMINER		-	<u> </u>			***			I	DATE CON	SIDERED	



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	AA15	4,87	0,659	09/19	989	Oishi	et al.		375	82	
	AB15	4,87	1,987	10/19	989	Kawa	se		332	100	
	AC15	4,88	5,587	12/19	989	Wieg	and et al.		42	14	
	AD15	4,88	5,756	12/19	989	Fonta	nes et al		375	82	
	AE15	4,88	8,557	12/19	989	Puck	ette, IV e	t al.	329	341	
	AF15	4,89	0,302	12/19	989	Muilv	vijk		375	80	
	AG15	4,89	3,316	01/19	990	Janc	et al.		375	44	
	AH15	4,89	3,341	01/19	990	Gehr	ing		381	7	
	Al15	4,89	4,766	01/19	990	De A	gro		363	159	
					FOREIGN	I PATI	NT DOC	UMENTS			
EXAMINER INITIAL		DOC	CUMENT NUME	BER	DATE		COUNT	RY	CLASS	SUB- CLASS	TRANSLATION
	AJ15	JP 6	-237276		08/1994		JP	RECEIV	EB	27/20	No
	AK15	JP 8	-23359		01/1996		JP	AUG 2 0 2	H04L	27/20	No
	AL15	JP 4	7-2314		02/1972		JP	Technology Cente	2600		Yes (Doc. AP53)
	AM15	JP 5	8-7903		01/1983		JP		H03C	1/02	Partial (Doc. AQ53)
	•		OTHE	R (Inc	ludina Autl	nor. Ti	tle. Date.	Pertinent Pages, et	c.)	•	
	AN	<u>15</u>	Transactions 1614 (Novem	on An ber 19	tennas and F	Propag	pation, IEE	or Tropospheric Scin EE Antennas and Pro uces data-acquisition 2, 224, 226-228 (Jun	pagation So	ciety, Vol. 36,	, No. 11, pp. 1608-
	AP	<u>15</u>	I '					oise Characteristics o national Frequency Co			
	AQ	<u>15</u>	Lam, W.K. <i>et</i> 9, pp. 738-739			unding	of 11.6 G	Shz transhorizon char	nnel," <i>Electr</i> o	onics Letters,	IEE, Vol. 30, No.
	AR	<u>15</u>	Larkin, K.G., ' pp. 101-102 (bandpas	s sampled AM signal	s," <i>Electroni</i>	cs Letters, IE	E, Vol. 32, No. 2,
EXAMINER	1		L						DATE CONS	SIDERED	



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EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA16	4,89	96,152	01/19	990	Tiem	ann		340	853	
	AB16	4,90	02,979	02/19	990	Puck	ette, IV		329	343	
	AC16	4,90	08,579	03/19	990	Tawf	ik <i>et al.</i>		328	167	
	AD16	4,91	10,752	03/19	990	Yest	er, Jr. <i>et al</i> .		375	75	
	AE16	4,91	14,405	04/19	990	Wells	3		331	25	
	AF16	4,92	20,510	04/19	990	Send	erowicz et a	al.	364	825	
	AG16	4,92	22,452	05/19	990	Larse	en <i>et al.</i>		365	45	
	AH16	4,93	31,921	06/19	990	Ande	rson	***	363	163	
	Al16	4,94	14,025	07/19	990	Gehr	ing et al.		455	207	
		<u> </u>			FOREIGN		NT DOCU	MENTS	<u>'</u>	<u> </u>	
XAMINER NITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
	AJ16	JP 5	58-133004		08/1983		JP	RECEN		1/00	١
	AK16	JP 6	60-58705		04/1985		JP	AUG 2 0		7/00	1
	AL16	JP 4	1-123614		04/1992		JP	Technology Cer	tenskoo	19/0175	N
	AM16	JP 4	1-127601		04/1992		JP		H03D	7/00	N
			OTHE	R (Inc	luding Autl	hor, Ti	tle, Date, F	Pertinent Pages, et	c.)	· · · · · · · · · · · · · · · · · · ·	
	AN	<u>16</u>						ucture of Microwave Exhibition, IEEE, pp			
	AO	<u>16</u>	Lau, W.H. <i>et</i> No. 20, pp. 10					entify Multipath Con	nponents," <i>E</i>	lectronics Le	tters, IEE, Vol. 23
	АР	<u>16</u>		on Ins	trumentation	and N		on the Estimation of the Estimation of the Instrument			
	AQ	<u>16</u>	Speed Modul	ators,"	IEEE Trans	action.	s on Microw	ESFET's as Gain-C vave Theory and Te 469 (June 1975).	ontrolled Lov chniques, IE	v-Noise Amp EE Microwa	lifiers and High- ve Theory and
	AR	<u>16</u>						Second Transient Reliety, Vol. NS-26, No			
XAMINER			<u> </u>	<u>-</u> -	<u></u>				DATE CONS	SIDERED	· · · · · · · · · · · · · · · · · · ·

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E			CLASS	SUB- CLASS	FILING DATE			
	AA17	4,95	55,079	09/19	990	Conr	erney et al.			455	325				
	AB17	4,96	55,467	10/19	990	Bilte	ijst			307	352				
	AC17	4,96	67,160	10/19	990	Quie	vy et al.			328	16				
	AD17	4,97	70,703	11/19	990	Harit	aran <i>et al</i> .			367	138				
	AE17	4,98	32,353	01/19	991	Jaco	b et al.	•	-	364	724.10				
	AF17	4,98	34,077	01/19	991	Uchi	da			358	140				
	AG17	4,99	95,055	02/19	991	Weir	berger <i>et al.</i>			375	5				
	AH17	5,00	03,621	03/19	991	Gailu	s			455	209				
	Al17	5,00	05,169	04/19	991	Bron	der <i>et al</i> .			370	76				
					FOREIGN PATENT DOCUMENTS					EIVED					
EXAMINER															
INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY		AUG	2 ^C b ^A \$\$002	SUB- CLASS	TRANSLATION			
	AJ17	JP 5	5-175730		07/1993		JP	Tech	nolog	HO3D Center 26	1/00 20	No			
	AK17	JP 5	5-175734		07/1993		JP į			H03D	3/00	No			
	AL17	JP 7	7-154344		06/1995	-	JP			H04B	14/06	No			
	AM17	JP 7	7-307620		11/1995		JP			H03D	1/18	No			
		1	OTHE	R (Inc	ludina Autl	ding Author, Title, Date, Pertinent Pages, etc.)									
	AN	<u>17</u>	Liou, M.L., "A IEEE, Vol. 71					Switche	ed-Cap	acitor Circuits	," Proceedii	ngs of the IEEE,			
	AO	<u>17</u>	Lo, P. <i>et al.</i> , " (March 26, 19		ent Automat	ic Gaiı	n Control," IEE	Colloqui	um on i	Phase Locked	l Technique	s, IEE, pp. 2/1-2/6			
	АР	<u>17</u>					uced Scintillatio ennas and Prop					e Frequencies," 2-15, 1983).			
	AQ	<u>17</u>	Lo, P.S.L.O. (e <i>t al</i> ., " Vol. 20	Observation), No. 7, pp.	s of A 307-30	mplitude Scintill 08 (March 29, 1	ations o 984).	n a Lov	v-Elevation Ea	arth-Space	Path," <i>Electronics</i>			
	AR	<u>17</u>										ave Theory and (October 1992).			
EXAMINER	j		I.						<u> </u>	DATE CONSI	DERED	1 12 1			



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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE	
	AA18	5,00	06,810	04/1	991	Pope	scu		328	167		
	AB18	5,0°	10,585	04/1	991	Garo	ia		455	118		
· · · · · · · · · · · · · · · · · · ·	AC18	5,0	14,304	05/1	991	Nicol	llini <i>et al</i>		379	399		
	AD18	5,0	15,963	05/1	991	Sutto	n		329	361		
	AE18	5,0	17,924	05/1	991	Guib	erteau e	et al.	342	195		
	AF18	5,02	20,149	05/1	991	Hemmie			455	325		
	AG18	5,02	20,154	05/1	991	Zierh	ut		455	608		
	AH18	5,05	52,050	09/1	991	Collier et al.			455	296		
	AI18	5,06	65,409	11/1	991	Hugh	nes <i>et al</i>	•	375	91		
					FOREIG	ON PATENT DOCUMENTS		CUMENTS	_			
EXAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUN	TRY RECEIVE	CLASS	SUB- CLASS	TRANSLATIC	
	AJ18	JP :	55-66057		05/1980		JР	AUG 2 0 20	G06K	7/10	ı	
	AK18	JP 6	IP 63-65587		03/1988		JP	HOU S O LO	G06K	7/10	1	
,,,.=	AL18	JP (63-153691	06/1988		JР	Technology Center	2600 G06K	17/00	1		
	AM18	EP	0 276 130 A2&	43	07/1988		ĒΡ		H03D	7/00	N	
			ОТН	ER (In	cluding Aut	hor, Ti	tle, Dat	e, Pertinent Pages, e	tc.)	<u> </u>		
	AN	<u>18</u>						nic integrated circuit sa 4 (August 7, 1989).	ampling head	I," Appl. Phys	s. Lett., American	
	АО	<u>18</u>	Martin, K. and	in, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," <i>IEEE Transactio</i> uits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).								
	АР	<u>18</u>	Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," <i>IEEE Transactions on Antennas and Propagat</i> IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).									
	AQ	<u>18</u>						ue to rain in satellite copp. 935-941 (May-June		n systems," <i>l</i>	Radio Science,	
	AR	<u>18</u>				oring of High-Speed Waveforms," <i>Electronic Engineering</i> , Morgan Brothers Limited, 441 (October 1952).						
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EXAMINER INITIAL			CUMENT MBER	DAŤ	E	NAM	1E	c	LASS	SUB- CLASS	FILING DATE			
	AA19	5,08	33,050	01/19	992	Vasi	le	3	07	529				
	AB19	5,09	91,921	02/19	992	Mina	ımi	3	75	88				
	AC19	5,09	95,533	03/19	992	Lope	er et al.	4	55	245				
	AD19		95,536	03/19		Lope	er <u> </u>		55	324				
	AE19	$\overline{}$	11,152	05/19			······································		29	300				
	AF19		13,094	05/19		 	ce et al.		07	529				
	AG19	_	13,129	05/19					23	316				
	AH19		22,765	06/19					32	105	1			
	AI19	5,12	24,592	06/19		Hagi] 3	07	520				
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	AJ19	wo	95/01006 A1		01/1995		PCT	FRE	OSM CEIV	1/66 /ED	N/A			
	AK19	wo	97/08839 A2&	A3	03/1997		PCT		04B IG 2 0	1/04 2002	N/A			
	AL19						_	- Ochno	logy Con	er 2600	Yes No			
	AM19	1	,					ECHIO	i cgy cen	ler 2600	Yes			
							itle, Date, Pertinent Pages			<u> </u>	No.			
<u></u>	AN	<u>19</u>	Merkelo, J. a Vol. SC-7, No	nd Hal o. 1, pp	I, R.D., "Broa D. 50-54 (Feb	ad-Ba oruary	nd Thin-Film Signal Sample 1972).	er," <i>IEEi</i>	E Journal (of Solid-Stat	e Circuits, IEEE,			
	AO	<u>19</u>	Merlo, U. <i>et a</i> No. 23, pp. 10	/., "Am 094-10	nplitude Scin 196 (Novemb	tillatio er 7,	n Cycles in a Sirio Satellite- 1985).	-Earth l	ink," <i>Elec</i>	tronics Lette	ers, IEE, Vol. 21,			
	АР	<u>19</u>					or measurement of the 30-m of Astrophysics, Springer-Ve							
	AQ	<u>19</u>	Moulsley, T.J	. et al. and Ra	, "The efficie adio Enginee	fficient acquisition and processing of propagation statistics," <i>Journal of the Institution ineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).								
	AR	<u>19</u>		n Radi	io Communic		Characterization of an Ove at Microwave and Millimet							
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	AA20	5,13	36,267	08/19	992	Cabo	t		333	174	
	AB20		40,705	08/19	992	Kosu			455	318	Ì
	AC20		50,124	09/19	992	†	e et al.		342	68	
	AD20		51,661	09/19	992	Cald	vell et al.		328	14	<u> </u>
	AE20	1 -	59,710	10/19	992	Cusd	in		455	304	
	AF20	5,17	70,414	12/19	992	Silvia	n	-	375	59	
	AG20	5,17	72,070	12/19	992	Hirai	va et al.		329	304	
	AH20	5,19	91,459	03/19	993	Thon	ipson <i>et al.</i>		359	133	
	Al20	5,20	04,642	04/19	993	Ashg	ar et al.		331	135	
							N PATENT DOCUMENTS				
XAMINER NITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO
	AJ20										Ye N
	AK20								RECE	IVED	Ye N
	AL20								AUG 2	0 2002	Ye N
	AM20							Te	chnology (enter 2600	Ye N
	•		OTHE	R (Inc	luding Aut	hor, Ti	tle, Date, Pertinent Pa	ages, etc	.)		<u> </u>
	AO	<u>20</u> <u>20</u>	Link," IEE Co Radio, IEE, p	lloquiu p. 9/1-	ım on Propa 9/6 (Novemi	gation ber 24	Signal Levels and Dop Characteristics and Re 1997).	elated Sys	stem Technic	ques for Beyo	ond Line-of-Sigh
AP Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hay Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).										. Hayden	
	AQ	<u>20</u>	Oppenheim, A	A.V. et	al., Signals	and S	√stems, Prentice-Hall, μ	pp. 527-5	31 and 561-	562 (1983).	
	AR	<u>20</u>				arameters Affecting Amplitude Scintillation Measurements on Satellite Links," 21, No. 17, pp. 771-772 (August 15, 1985).					
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	Ē		CLASS	SUB- CLASS	FILING DATE
	AA21	5,2	12,827	05/19	993	Mesa	zko <i>et al.</i>	-	455	219	
,	AB21	5,2	14,787	05/19	993	Karkota, Jr.			455	3.2	
	AC21	5,2	20,583	583 06/1993		Solomon			375	82	
	AD21	5,2	20,680	06/19	993	Lee			455	102	
	AE21	5,2	22,144	06/19	993	Whik	ehart		381	15	
	AF21	5,2	30,097	07/19	993	Curri	e et al.		455	226.1	
	AG21	5,2	39,686	08/19	993	Dow	ney		455	78	
	AH21	5,2	41,561	08/19	993	Barn	ard		375	1	
	AI21	5,2	49,203	09/19	993	Lope	r		375	97	_
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EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ21										Ye N
	AK21								REC	IVED	Ye N
	AL21									INFO	Ye
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,	AM21							Te	chnology (entor 200	Ye N
			ОТН	ER (Inc	luding Aut	hor, Ti	tle, Date, Pertinent P				
	AN	<u>21</u>	Pärssinen et Theory and	al., "A Fechnic	2-GHz Subl gues, IEEE,	narmor Vol. 45	nic Sampler for Signal i, No. 12, 7 pages (Dec	Downcon cember 1	version," <i>IEI</i> 997).	EE Transactio	ons on Microwav
	AO	<u>21</u>		ts," Int	ernational J		itical Models for Clear- of Satellite Communic				
	АР	<u>21</u>	Perrey, A.G. Dept. of Com	and So	choenwetter, , pp. 1-14 (N	, H.K., ⁄lay 19	NBS Technical Note 1 80).	1121: A S	chottky Diod	le Bridge San	npling Gate, U.S.
	AQ	<u>21</u>	Poulton, K. e pp. 962-969			t ADC	System," <i>IEEE Journa</i>	al of Solid	-State Circui	ts, IEEE, Vol	. SC-22, No. 6,
	AR	<u>21</u>	Press Releas (April 6, 1994		rkervision, lı	nc. Anr	nounces Fiscal 1993 R	Results," L	ippert/Heilsl	norn and Ass	ociates, 2 Pages
EXAMINER	1 1		<u> </u>						DATE CONS	IDERED	·

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	AA22	5,251,218	10/19	993	Stone	e et al.		370	120	
***	AB22	5,251,232	10/1	993	Nonami			375	5	
	AC22	5,260,970	11/19	993	Henry et al.			375	10	
	AD22	5,263,194	11/19	993	Ragan			155	316	
	AE22	5,263,196	11/19	993	Jasper			155	324	
	AF22	5,267,023	11/19	993	Kawa	saki	3	358	23	
	AG22	5,278,826	01/19	994	Murp	hy et al.	3	370	76	
	AH22	5,282,023	01/19	994	Scar	oa	3	358	36	
	Al22	5,287,516	02/19	994	Scha	ub	3	375	88	
				FOREIGI	N PATE	NT DOCUMENTS				-
EXAMINER INITIAL		DOCUMEN	T NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
•	AJ22									Yes No
	AK22							RE(EIVE	Yes No
	AL22								2 0 2002	
	AM22			-			Te		Center 26	
			OTHER (Inc	luding Aut	hor, Ti	tle, Date, Pertinent P		_		
	AN	Sales	Manager," Lip	opert/Heilsho	orn and	nounces the Appointme Associates, 1 Page (April 7, 199	4).		
	AO		iates, 2 Page			aman vvcii-Neceived i	by Distance	Learning	ivialitet, Lipp	
	АР		Release, "Pa iates, 2 Page			ounces First Quarter	Financial R	esults," Lip	ppert/Heilsho	n and
	AQ					ounces The Retireme ige (May 11, 1994).	nt of Williar	m H. Fletch	ner, Chief Fin	ancial Officer,"
	AR	22 Press Lipper	Release, "Pa t/Heilshorn ar	rkervision, Ind Associate	nc. Ann es, 3 Pa	ounces New Camerar ages (June 9, 1994).	man Systen	n II™ At In	focomm Trad	le Show,"
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EXAMINER INITIAL		DOCUME NUMBER		E	NAM	E		CLASS	SUB- CLASS	FILING D	ATE
	AA23	5,293,398	03/1	994	Ham	ao et al.		375	1		
	AB23	5,303,417	04/1	994	Laws	S		455	314		
	AC23	5,307,517	04/1	994	Rich			455	306		
	AD23	5,315,583	05/1	994	Murphy et al.			370	18	, <u></u> .	
	AE23	5,321,852	06/1	994	Seor	ng		455	182.1		
	AF23	5,325,204	06/1	994	Scar	ра		348	607		
	AG23	5,337,014	08/1	994	Najle	et al.		324	613		
	AH23	5,339,054	08/1	994	Tagu	chi		332	100		
	Al23	5,339,459	08/1	994	Schil	tz et al.		455	333		
				FOREIG	N PATI	ENT DOCUMENTS		•			
EXAMINER NITIAL		DOCUME	NT NUMBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	ATIO
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	AL23								JG 2 0 20	f	Ye N
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····	AO	Asse	ociates, 2 Page	s (June 17,	1994). Inc. Anı	nounces Appointments nounces Second Quar ages (August 9, 1994)	rter and s				n and
	АР	23 Pres	s Release, "Pa ert/Heilshorn a	irkervision, I	Inc. Anrees, 3 Pa	nounces Third Quarter ages (October 28, 199	r and Nir 94).	ne Months Fina	ancial Result	s,"	
	AQ	23 Pres	s Release, "Pa ert/Heilshorn a	ırkervision, l nd Associat	Inc. Anres	nounces First Significa ages (November 7, 19	ant Deale 194).	er Sale of Its C	Cameraman®	System II,"	
	AR	23 Pres	s Release, "Pa ociates, 2 Page	rkervision, l s (March 1,	Inc. Anr 1995).	nounces Fourth Quart	er and Y	ear End Resul	ts," Lippert/H	leilshorn an	ıd
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EXAMINER INITIAL		DOC NUM	UMENT BER	DATI	E	NAM	Ē	CLASS	SUB- CLASS	FILING DATE
	AA24	5,355	,114	10/19	994	Sutte	rlin <i>et al.</i>	340	310 A	
	AB24	5,361	,408	11/19	994	Wata	nabe <i>et al</i> .	455	324	
	AC24	5,369	,800	11/19	994	Taka	gi <i>et al</i> .	455	59	
	AD24	5,375	,146	12/19	994	Chair	ners	375	103	
	AE24	5,379	,040	01/19	95	Mizo	noto <i>et al</i> .	341	143	**
	AF24	5,379	,141	01/19	995	Thor	pson <i>et al</i> .	359	125	
	AG24	5,388		02/19	995	Taka	ori <i>et al.</i>	364	724.17	
	AH24	5,390		02/19		Webs	ster <i>et al</i> .	455	52.3	
	A124	5,400	 	03/19		Scar		348	624	
	171121	10,100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00.10			INT DOCUMENTS	10.0		
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	<u></u>	<u> </u>	OTHE	R (Inc	luding Aut	hor, Ti	tle, Date, Pertinent Pages	s, etc.)		
	AN	24	Press Releas Associates, 2	e, "Pa Page	rkervision, Ir s (March 21,	nc. Anr 1995)	nounces Joint Product Deve	elopments With \	∕TEL," Lipper	t/Heilshorn and
	АО	<u>24</u>	Press Releas Associates, 3				ounces First Quarter Finar	ncial Results," Li	opert/Heilshor	n and
	1 1			<u>.</u>						
	АР	<u>24</u>					p 100 Product Districts' Ch June 29, 1995).	oice Award," Pai	kervision Mar	keting and
	AP	<u>24</u>	Manufacturin Press Releas	g Head	dquarters, 1	Page (
		-	Manufacturin Press Releas Manufacturin	g Head se, "Pa g Head se, "Pa	rkervision N dquarters, 1	Page (ational Page (June 29, 1995). Sales Manager Next Presi	dent of USDLA,"	Parkervision	Marketing and

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EXAMINER INITIAL			CUMENT MBER	DATI	Ē	NAM	E	CL	ASS	SUB- CLASS	FILING DA	ATE
	AA25	5,40	04,127	04/19	995	Lee 6	et al.	34	<u> </u>	310.02		
-	AB25	5,4	10,541	04/19	995	Hotto	· ·	37	0	76		
· · ·	AC25	1	10,743	04/19	995	Seely et al.			 5	326		
	AD25	5,4	12,352	05/19	995	Graham			2	103		
	AE25	5,4	416,803 05/1995				Janer			324		
	AF25	5,42	22,913	06/19	995	Wilki	nson	37	 5	347	<u> </u>	
	AG25	1	23,082	06/19	995	Cyga	n <i>et al</i> .	45:	5	126		
	AH25		28,638	06/19			et al.	37		224		
	Al25	1	28,640	06/19	995	Towr		37		257		
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	AN	<u>25</u>	Press Releas Marketing an	e, "Pa d Manı	rkervision, Ir ufacturing He	nc. Anreadqua	nounces Second Quarte arters, 2 Pages (July 31	er and Six Mo , 1995).	onths Fir	nancial Resul	ts," Parkerv	ision
	AO	<u>25</u>					ands Its Cameraman S ages (September 22, 19		duct Line	e," Parkervisi	ion Marketin	g
	АР	<u>25</u>	Press Releas Manufacturing	e, "Pa g Head	rkervision Ar Iquarters, 2 l	nnound Pages	ces New Camera Contro (October 25, 1995).	ol Technolog	y," Parke	ervision Mark	ceting and	
	AQ	<u>25</u>	Press Releas Parkervision	e, "Pai Market	rkervision, In ing and Man	nc. Anr nufactu	nounces Completion of Viring Headquarters, 2 Pa	VTEL/Parkel	vision Jo er 30, 19	oint Product I 195).	Line,"	
	AR	<u>25</u>					ounces Third Quarter a arters, 2 Pages (Octobe		nths Fina	ancial Result	s," Parkervis	sion
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EXAMINER INITIAL			CUMENT MBER	DATE	=	NAM	E		CLASS	SUB- CLASS	FILING DA	\TE
	AA26	5,43	4,546	07/19	95	Palm	er		332	151		
	AB26	5,43	8,692	08/19	95	Mohindra			455	324		
	AC26	5,44	4,415	08/19	95	Dent et al.			329	302		
	AD26	5,44	4,416	08/19	95	Ishika	awa <i>et al</i> .		329	341		
	AE26	5,44	4,865			Heck et al.			455	86		
	AF26	5,44	6,421	08/19	995	Kechkaylo			332	100	·	
	AG26	5,44	6,422	08/19	995	Mattila et al.			332	103		
	AH26	5,44	8,602	09/19	995	Ohm	ori <i>et al</i> .		375	347		
	A126	5,45	1,899	09/19	995	Lawte	on		329	302		
		<u>'</u>	···		FOREIGN	PATE	NT DOCUMENTS					
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	101
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	AM26								Technolo	gy Center 2	600	Ye N
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	AN	<u>26</u> <u>26</u>	Parkervision Press Releas	Marke	rkervision. In	nufactu	aman Personal Locator iring Headquarters, 2 P nounces Purchase Com arters, 1 Page (Februar	ages (No	From VTEL	995).		on
	AP	26	Press Releas	se, "Pa turing	rkerVision, I Headquarter	nc. An	nounces Fourth Quarte ages (February 27, 199	r and Ye 6).	ar End Resu	ılts," Parkervi	sion Market	ting
	AQ	<u>26</u>	Press Releas Headquarters				pands its Product Line, 6).	" Parkerv	ision Marke	ting and Man	ufacturing	
	AR	<u>26</u>	Press Releas	se, "Pa turing	ırkerVision F Headquarter	iles Pars, 1 P	atents for its Research (age (March 28, 1996).	of Wirele	ss Technolo	gy," Parkervi	sion Market	ing
EXAMINER	1		1					[[ATE CONS	IDERED	*· <u>-</u> -	

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ATTY. DOCKET NO. 1744.1260001 APPLICATION NO. 09/855,851 APPLICANT Sorrells et al. GROUP FILING DATE

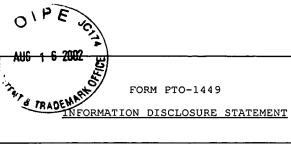
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE		
	AA27	5,45	4,007	09/19	995	Dutta	1		375	322			
	AB27	5,45	4,009	09/19	995	Fruit	et al.		372	202			
	AC27	5,46	3,356	10/19	95 Palm		er		332	117			
	AD27	5,46	3,357	10/19	995	5 Hobden			332	151			
	AE27	5,46	5,071	071 11/1995		Kobayashi <i>et al.</i>			329	315			
	AF27	5,46	5,410			Hiben <i>et al.</i>			455	266			
	AG27	5,46	5,415	11/19	995	Bien			455	326			
	AH27	5,47	1,162	11/19	995	McE	van		327	92			
-	Al27	5,47	9,120	12/19	995	McE	van		327	91			
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	AN	<u>27</u>					nounces First Significa ring Headquarters, 2				e-Chip System,"		
	AO	<u>27</u>					oduces New Product arters, 2 Pages (April			ction Marke	t," Parkervision		
	АР	<u>27</u>	Press Releas	se, "Pa cturing	rkervision, Ir Headquarter	nc. Anr s, 1 Pa	nounces Private Place age (April 15, 1996).	ement of 8	800,000 Shar	es," Parken	vision Marketing		
	AQ	<u>27</u>	Press Releas Manufacturin	se, "Pa ig Head	rkervision, Ir dquarters, 3	nc. Anr Pages	nounces First Quarter (April 30, 1996).	Financial	Results," Pa	rkervision N	Marketing and		
·	AR	<u>27</u>	Press Releas				tudio Product Wins A	ward," Pa	arkervision Ma	arketing and	d Manufacturing		

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INFORMATION DISCLOSURE STATEMENT

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					U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA28	5,47	9,447	12/19	995	Chov	v et al.	375	260	
	AB28	5,48	3,193	01/19	996	Kennedy et al.		329	300	
	AC28	5,48	3,549	01/19	996	Weinberg et al.		375	200	
	AD28	5,48	3,691	01/19	996	Heck et al.		455	234.2	
	AE28	5,49	90,173 02/1996			Whik	ehart et al.	375	316	
	AF28	5,49	93,581 02/1996			Youn	g et al.	375	350	
	AG28	5,49	3,721	02/19	996	Reis		455	339	
	AH28	5,49	5,200	02/19	996	Kwar	n et al.	327	554	
	Al28	5,49	5,202	02/19	996	Hsu		327	113	
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EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
,	AJ28								<u>-</u>	Ye: No
	AK28							RE	CEIVE	Yes No
	AL28							AUG	CEIVE 2 0 200	Yes
	AM28									
			OTHE	R (In	Luding Auti	hor Ti	tle, Date, Pertinent Pages	etc.)	y Conter 2	500
	AN	<u>28</u>					nounces Second Quarter an arters, 3 Pages (August 1, 1		nancial Resu	ts," Parkervision
	АО	<u>28</u>					nounces Third Quarter and l arters, 2 Pages (October 29		ancial Result	s," Parkervision
	AP	<u>28</u>					rVision Sign Reseller Agree (October 30, 1996).	ment," Parkervis	ion Marketin	g and
	AQ	<u>28</u>	Press Releas Pages (Janua			Vision	Bring Enhanced Ease-of-U	se to Videoconfe	rencing," CL	l/Parkervision, 2
	AR	28	Press Releas and Manufact	e, "Pa uring	rkervision, Ir Headquarter	nc. Anr s, 3 Pa	nounces Fourth Quarter and ages (February 27, 1997).	l Year End Resul	its," Parkervi	sion Marketing
EXAMINER								DATE CONSI	DERED	



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					U.S. P	ATEN	T DOCUMENTS						
EXAMINER INITIAL		DOC	UMENT BER	DATI	≣	NAM	E		CLASS	SUB- CLASS	FILING DA	ΛΤΕ	
	AA29	5,495	5,500	02/19	996	Jova	novich <i>et al</i> .		375	206			
	AB29	5,499	9,267	03/19	996	Ohe et al.			375	206			
	AC29	5,500	0,758	03/19	996	Thon	npson <i>et al.</i>		359	189			
	AD29	5,517	7,688	05/1996		Fajer	n et al.		455	333			
•	AE29	5,519	9,890	05/19	996	Pincl	kley		455	307			
	AF29	5,523	3,719	06/19	996	Long	o et al.		327	557			
	AG29	5,523	3,726	06/19	96	Kroe	ger <i>et al</i> .		332	103			
	AH29	5,523	3,760	06/19	96	McE	wan		342	89			
	Al29	5,539	9,770	07/19	996	Ishig	aki		375	206ECF	IVED		
					FOREIGN	N PATENT DOCUMENTS					RECEIVED		
EXAMINER INITIAL		DOC	UMENT NUMI	BER	DATE		COUNTRY		CLASS Tec	AUG 2 SUB- hounssy Ca	2002 TRANSLA	TION	
	AJ29										2000	Yes No	
	AK29											Yes No	
	AL29											Yes No	
	AM29											Yes No	
			OTHE	R (Inc	luding Autl	hor, Ti	tle, Date, Pertinent Pa	ges, et	c.)				
	AN	<u>29</u>					nounces First Quarter Fi (April 29, 1997).	inancial	l Results," Pa	rkervision Ma	arketing and		
	AO	<u>29</u>	Press Releas 1997).	e, "NE	C and Parke	ervisio	n Make Distance Learni	ng Clos	er," NEC Am	erica, 2 Page	es (June 18,		
	АР	<u>29</u>	Press Releas Parkervision I	e, "Pa Market	rkervision Si ing and Mar	upplies nufactu	JPL with Robotic Came iring Headquarters, 2 pa	eras, Ca ages (Ju	ameraman SI uly 8, 1997).	not Director f	or Mars Miss	sion,"	
	AQ	<u>29</u>	Press Releas Marketing and	e, "Pa d Manı	rkerVision a ufacturing H	nd IBM eadqua	l Join Forces to Create arters, 2 Pages (July 23	Wireles , 1997).	s Computer I	^o eripherals,"	Parkervisior	1	
	AR	29					nounces Second Quarte arters, 3 Pages (July 31			nancial Resu	lts," Parkerv	ision	
EXAMINER		1	· · · · · · · · · · · · · · · · · · ·					1	DATE CONSI	DERED			



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EXAMINER INITIAL		DOCUM		DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
	AA30	5,555,4	53	09/19	996	Kajin	noto <i>et al</i> .		455	266	
	AB30	5,557,6	41	09/19	996	Weir	berg		375	295	
	AC30	5,557,6	42	09/19	996	Williams			375	316	
	AD30	5,579,3	41	11/19	96 Smith et al.			375	267		
	AE30	5,579,3	47	11/19	996	Lindo	uist <i>et al.</i>		375	346	
	AF30	5,584,0	68	12/19	996	Mohindra			455	324 HE	CEIVED
	AG30	5,592,13	31	01/19	997	Labre	eche <i>et al</i> .		332	103	
	AH30	5,602,84	47	02/19	997	Paga	no <i>et al.</i>		370	484 AU(2002
	AI30	5,602,86	58	02/19	997	Wilso	on		375	768hnolo	
					FOREIGN	GN PATENT DOCUMENTS					Sy Center 2600
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	ÁJ30						· -				Yes No
	AK30										Yes No
	AL30										Yes
	AM30										Yes No
		1	ОТНЕ	R (Inc	cluding Aut	hor. T	tle, Date, Pertinent F	Pages, e	etc.)	_	· · · · · · · · · · · · · · · · · · ·
	AN	30 Pr	ess Releas d Manufac	e, "Pa turing l	rkervision, Ir Headquarter	nc. Anı rs, 2 Pa	nounces Private Place ages (September 8, 19	ement of 997).	990,000 Sha	ıres," Parkerv	ision Marketing
	АО						arkervision for Broadc (October 24, 1997).	ast Prod	duction," Park	ervision Mark	eting and
	АР	30 Pr	ess Releas anufacturin	e, "Pa g Head	rkervision, Ir dquarters, 3	nc. Ani Pages	nounces Third Quarter (October 30, 1997).	r Financ	ial Results," l	Parkervision N	Marketing and
	AQ	30 Pr	ess Releas arketing an	e, "Pa d Man	rkerVision A ufacturing H	nnoun eadqu	ces Breakthrough in V arters, 3 Pages (Dece	Vireless mber 10	Radio Frequ), 1997).	ency Technol	ogy," Parkervision
-	AR	30 Pr	esident, Lic	ess Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice esident, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 ges (January 9, 1998).							
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ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
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EXAMINER INITIAL		DOCU NUMB	MENT SER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING DATE
	AA31	5,604,	732	02/19	997	Kim	et al.	370)	342	
	AB31	5,608,	531	03/19	997	Hono	la et al.	386	3	1	
	AC31	5,610,	946	03/19	997	Tana	ka et al.	375	5	269	
	AD31	RE 35	,494	04/19	997	Nicol	lini	327	,	554	
	AE31	5,617,	451	04/19	997	Mimu	ıra et al.	375	5	340	
	AF31	5,619,	538	04/19	997	Sem	oel <i>et al.</i>	375	5	328	
	AG31	5,621,	455	04/19	997	Roge	rs et al.	348 455	3	6	
	AH31	5,630,	227	05/19	997	Bella	et al.		5	324	
	AI31	5,640,4	415	06/19	997	Pandula		375	5	202	
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EXAMINER NITIAL		DOCU	MENT NUM	BER	DATE		COUNTRY	CLA	ASS	SUB- CLASS	TRANSLATIO
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	AK31										Ye
	AL31 AM31										Ye N
	AM31	AM31									Ye N
			OTH	ER (Inc	Luding Aut	hor Ti	tle, Date, Pertinent Pa	ges etc \		1	
	AO	31 (Strategic Foo January 27, Press Releas	us Anr 1998). ————	nounced in E	Decemi	bes Existing Agreement ber," Parkervision Mark fy Parkervision Wireles (March 3, 1998).	eting and Ma	nufacti	uring Headqu	arters, 2 Pages
	АР	31 F	Press Releas Marketing and	e, "Pa d Manı	rkervision, Ir ufacturing He	nc. Anr eadqua	ounces Fourth Quarter arters, 3 Pages (March	and Year En 5, 1998).	nd Fina	ncial Results	" Parkervision
	AQ	31 F	Press Releas Manufacturin	e, "Pa g Head	rkervision Av Iquarters, 2	warded Pages	l Editors' Pick of Show 1 (April 15, 1998).	for NAB 98,"	Parker	vision Market	ing and
	AR						es First Quarter Financ (May 4, 1998).	ial Results,"	Parker	vision Market	ing and
XAMINER							**************************************	DATE	CONS	SIDERED	

Page <u>32 of 56</u> ATTY. DOCKET NO. APPLICATION NO. 1744.1260001 09/855,851 FORM PTO-1449 APPLICANT Sorrells et al. GROUP FILING DATE 2681 May 16, 2001 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE **CLASS** FILING DATE NAME SUB-CLASS NUMBER 375 AA32 5,640,424 06/1997 316 Banavong et al. **AB32** 5,640,428 375 334 06/1997 Abe et al. AC32 5,640,698 06/1997 Shen et al. 455 323 375 219 AD32 5,648,985 07/1997 Bjerede et al. 357 AE32 5,650,785 07/1997 Rodal 342 327 105 AF32 5,661,424 08/1997 Tang 363 159 AG32 5,663,878 09/1997 Walker ²⁹⁹chnoldgy Center 2600 09/1997 AH32 5,663,986 Striffler 375 AI32 5,668,836 09/1997 Smith et al. 375 **FOREIGN PATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER INITIAL DATE COUNTRY CLASS SUB-TRANSLATION **CLASS** AJ32 Yes No AK32 Yes No AL32 Yes Nο AM32 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision ΑN <u>32</u> Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998). Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing AO <u>32</u> Headquarters, 2 Pages (July 29, 1998). Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision ΑP 32 Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).

Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision <u>32</u> Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).

Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision <u>32</u> Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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EXAMINER INITIAL			UMENT IBER	DATI	Ε	NAM	E	Cı	_ASS	SUB- CLASS	FILING DATE
	AA33	5,680	0,078	10/19	997	Ariie		33	2	178	
	AB33	5,680	0,418	10/19	997	Croft	et al.	37	5	346	
	AC33	5,689	9,413	11/19	997	Jarar	nillo <i>et al</i> .	36	3	146	. <u>.</u> .
	AD33	5,699	9,006	12/19	997	Zele	et al.	32	7	341	1
	AE33	5,705	5,955	01/19	998	Free	ourg <i>et al.</i>	33	1	14	
	AF33	5,710	0,998	01/19	998	Opas	3	45	5	324	
	AG33	5,714	4,910	02/19	998	Skoc	zen <i>et al.</i>	33	1	3	
	AH33	5,715	5,281	02/19	998	Bly e	t al.	37	5	344	
	AI33	5,72	1,514	02/19	998	Croc	kett <i>et al.</i>	33	1	3	
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EXAMINER INITIAL		DOC	UMENT NUMI	BER	DATE		COUNTRY	СІ	ASS	SUB- CLASS	TRANSLATION
	AJ33										Yes No
	AK33										Yes No
	AL33										Yes No
	AM33										Yes
	1	<u> </u>	OTHE	R (Inc	ludina Auti	hor. Ti	tle, Date, Pertinent Pa	nes. etc.)		<u> </u>	1 100
	AN	<u>33</u>	Press Releas Headquarters	e, "Pa , 2 Pa	rkervision Adges (March	dds Tw 5, 199	vo New Directors," Parke 9).	ervision Ma	rketing	and Manufac	turing
	AO	<u>33</u>	Press Releas Marketing and	e, "Pa d Mani	rkervision Ar ufacturing Ho	nnound eadqua	ces Fourth Quarter and S arters, 3 Pages (March &	Year End F 5, 1999).	inancial	Results," Pa	rkervision
	АР	<u>33</u>	Press Releas Marketing and	e, "Joi d Manı	nt Marketing ufacturing He	Agree eadqua	ement Offers New Auton arters, 2 Pages (April 13	nated Produ , 1999).	uction S	olution," Park	ervision
	AQ	<u>33</u>	"Project COS Vol. LIV, No.	T 205: 3, pp.	Scintillation 209-211 (Ma	s in Ea ay-Jun	arth-satellite links," <i>Alta i</i> e, 1985).	Frequenza:	Scientii	fic Review in	Electronics, AEI,
	AR	<u>33</u>	Razavi, B., <i>R</i> .	F Micr	oelectronics	, Prent	ice-Hall, pp. 147-149 (1	998).			
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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
-	AA34	5,724,002	03/1	998	Hulic	k	329	361	
	AB34	5,724,653	03/19	998	Bake	r et al.	455	296	
	AC34	5,729,577	03/1	998	Cher	1	375	334	
	AD34	5,729,829	03/1	998	Talw	ar et al.	455	63	
	AE34	5,732,333	03/19	998	Cox	et al.	455	126	
_	AF34	5,736,895	04/19	998	Yu e	al.	327	554	
	AG34	5,737,035	04/19	998	Rotz	oll	348	725	
	AH34	5,742,189	04/19	998	Yosh	ida <i>et al</i>	327	113	
	Al34	5,748,683	05/19	998	Smith et al.		375	347	
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	AM34						Technol	gy Center :	Y∈ 2600 N
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	AN	Reeves, R Brothers L	J.D., "Th mited, V	ne Recording ol. 31, No. 3	and C 73, pp.	Collocation of Waveforms 130-137 (March 1959).	s (Part 1)," <i>Electror</i>	nic Engineerin	g, Morgan
	AO	34 Reeves, R Brothers L	J.D., "Th mited, V	e Recording ol. 31, No. 3	and C 74, pp.	Collocation of Waveform: 204-212 (April 1959).	s (Part 2)," <i>Electror</i>	nic Engineerin	<i>g</i> , Morgan
	AP					cond-Pulse Generator w Vol. 11, No. 1, pp. 21-23			alanche
	AQ	34 Riad, S.M.	and Nah S Interna	man, N.S., " ational Micro	Modeli wave	ng of the Feed-through Symposium Digest, IEEE	Wideband (DC to 1 E, pp. 267-269 (Jun	2.4 Ghz) Sam e 27-29, 1978	ipling-Head," I).
	AR					se Analysis of MESFET EE, Vol. 37, No. 9, pp. 1			actions on
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EXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAM	E	С	LASS	SUB- CLASS	FILING DA	ATE
	AA35	RE 35,829	06/1	998	Sand	lerford, Jr.	37	75	200		
	AB35	5,760,645	06/1	998	Com	te et al.	32	29	304		
	AC35	5,764,087	06/1	998	Clark	(32	27	105		
	AD35	5,767,726	06/1	998	Wan	g	32	27	356		
	AE35	5,768,118	06/1	998	+	c et al.		33	72		
	AF35	5,771,442	06/1	998	Wan	g et al.	45	55	93		
	AG35	5,777,692	07/1	1	Ghos	-		18	725		
	AH35	5,777,771	07/1		Smitl			59	180		
	Al35	5,786,844	07/1		+	ers et al.		48	6	\	
	7.100	10,100,011	1,0.7.			ENT DOCUMENTS			, ,		
EXAMINER INITIAL		DOCUMENT NU	IMBER	DATE		COUNTRY	c	LASS	SUB-	TRANSLA	TION
	AJ35								CLASS		Yes No
	AK35							RE	CEIVE	D	Yes No
	AL35							AU	G 2 0 200	2	Yes No
	AM35							Technolo	gy Center	2600	Yes No
	. I	01	HER (In	cluding Aut	thor, Ti	itle, Date, Pertinent Pa					
	AN					nmunication Systems, E er V, Pulse Modulation S			pany, Inc., P	rinceton, Ne	w
	AO	35 Rücker, F. Dependen	and Dint ce," <i>Elec</i>	elmann, F., tronics Lette	"Effect ers, IEE	of Antenna Size on OT , Vol. 19, No. 24, pp. 10	S Signal Sc 032-1034 (N	cintillation November	s and Their S 24, 1983).	Seasonal	
	АР					Wave Phase Locked O nd Publishers, pp. 238-				3 Conference	÷
4000	AQ	35 Communic	ations,"		on of El	f a Robust Flexible Rec ngineers Australia Com , 1990).					
	AR			al generatio . 3, pp. 281-		ICW waveforms for wid une 1992).	leband char	nnel chara	cterization,"	IEE Proceed	dings-
EXAMINER]						DAT	E CONSI	DERED		

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EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E		CLASS	SUB- CLASS	FILING DA	TE
	AA36	5,79	93,801	08/19	998	Fertr	er		375	219		
	AB36	5,79	93,818	08/19	998	Clay	don <i>et al</i> .		375	326		
	AC36	5,80	02,463	09/19	98	Zuck	erman		455	208		
	AD36	5,80	9,060	09/19	98	Cafa	rella et al.		375	206		
	AE36	5,81	18,582	10/19	998	Fern	andez et al.		356	318		
_	AF36	5,82	25,254	10/19	98	Lee			331	25		
	AG36	5,83	34,985	11/19	998	Sund	egård		332	100		
	AH36	5,86	64,754	01/19	999	Hotto			455	280	,	
	AI36	5,88	31,375	03/19	999	Bond	s		455	118		
		•			FOREIGN	N PATI	NT DOCUMENTS		<u> </u>			
EXAMINER INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	TION
	AJ36									RECEIN	/ED	Yes
	AK36 AL36									AUG 2 0	20 02	Yes No Yes
	AM36	<u> </u>							Tech	nology Cer	ter 2800	No Yes
												No
			ОТНЕ	R (Inc	luding Aut	hor, T	tle, Date, Pertinent Pag	ges, etc	s.)			
	AN	<u>36</u>	"Sampling Lo	ops Lo	ock Sources	to 23 (Ghz," <i>Microwaves & RF</i> ,	Pentor	n Publishing,	p. 212 (Septe	ember 1990)).
	AO	<u>36</u>	Sasikumar, N Vol. 71, No. 8				eation in the Switched-Ca 1983).	apacito	r Biquad," <i>Pr</i> i	oceedings of	the IEEE, IE	ΞΕΕ,
	AP	<u>36</u>	Saul, P.H., "A ESSCIRC 79				and Hold Switch," Fifth i	Europe	an Solid Stat	e Circuits Co	nference-	
	AQ	<u>36</u>	Shen, D.H. e	<i>: al.</i> , " <i>P</i> :, IEEE	\ 900-MHZ F Solid-State	RF Fro	nt-End with Integrated Dits Council, Vol. 31, No. 1	iscrete- 12, pp.	-Time Filterin 1945-1954 ([g," <i>IEEE Jou</i> December 19	rnal of Solid 96).	-
	AR	<u>36</u>					transhorizon propagation hysical Union, Vol. 30, N					
EXAMINER	1.					·		[DATE CONSI	DERED		

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EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E	CL	ASS	SUB- CLASS	FILING DA	TE
	AA37	5,89	2,380	04/19	999	Quis		327	,	172		
	AB37	5,89	4,239	04/19	999	Bona	ccio et al.	327	,	176		
_	AC37	5,89	6,562	04/19	999	Hein	onen	455	;	76		
	AD37	5,90	0,747	05/19	999	Brau	ns	327	•	9		
	AE37	5,90	1,054	05/19	999	Leu e	et al.	363	3	41		
	AF37	5,90	1,187	05/19	999	linum	na	375		347		
	AG37	5,90	1,344	05/19	999	Opas	·	455	,	76		
	AH37	5,90	1,347	05/19	999	Char	nbers et al.	455	,	234.1		
	Al37	_	1,348	05/19	999	Bano	et al.	455		254		
	-		·		FOREIGN		ENT DOCUMENTS					
EXAMINER INITIAL		DOC	CUMENT NUME	BER	DATE		COUNTRY	CI	ASS	SUB- CLASS	TRANSLA	TION
	AJ37											Yes No
	AK37								RE	CEIVE	D	Yes
	AL37								AUG	2 0 200	2	No Yes
*								Te	i i		_	No
	AM37							16	CHIOID	y Center 2	600	Yes No
			OTHE	R (Inc	luding Auth	or, Ti	tle, Date, Pertinent Pa	ages, etc.)				
	AN	<u>37</u>					Behaviour of Radio Cha , Vol. 29, No. 17, pp. 1				gation	
	АО	<u>37</u>	of the parabol	ic Equ	ation and Ra	ay Tra	pherical Diffraction and cing Methods," <i>IEE Co</i> eve propagation, IEE, p	lloquium on C	ommon	modeling tec	n Path with hniques for	aid
	АР	<u>37</u>					stics and mechanisms s, pp. 259-261 (Februar		n propa	gation over a	sea path,"	
	AQ	<u>37</u>	Shen, D. et al Circuits Confe	., "A 9 erence	00 MHZ Inte , IEEE, Vol.	grated 39, pp	Discrete-Time Filterin . 54-55 and 417 (Febru	g RF Front-Ei uary 1996).	nd," <i>IEEI</i>	E Internation	al Solid Stat	9
	AR	37	Spillard, C. et Sixth Internati (April 4-7, 198	onal C	(-Band Tropo Conference o	ospher on Ante	ic Transhorizon Propaç ennas and Propagation	gation Under (ICAP 89) Pa	Differing art 2: Pro	Meteorologio pagation, IE	cal Condition E, pp. 451-4	าร," 55

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EXAMINER INITIAL			CUMENT MBER	DATI	Ξ	NAM	E	•	CLASS	SUB- CLASS	FILING D	ATE
	AA38	5,90	1,349	05/19	999	Gueç	naud et al.		455	302		
	AB38	5,90	3,178	05/19	999	Miya	suji <i>et al</i> .		327	308		
-	AC38	5,90	3,187	05/19	999	Clave	erie et al.		329	342	Ĭ	
	AD38	5,90	3,196	05/19	999	Salvi	et al.		331	16		
* * *	AE38		3,421	05/19	999	Furut	ani <i>et al</i> .		361	58		
_	AF38		3,553	05/19	999	Saka	moto <i>et al</i> .		370	338		
	AG38	5.90	3,595	05/19	999	Suzu	ki		375	207		
	AH38		3,609	05/19	999	Kool et al. Kennan et al.			375	261		
	AI38		3,827	05/19	999			455	326			
	1	1 -,	,			IGN PATENT DOCUMENT						
XAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSL	ATIO
	AJ38								F	ECEIV	ED	Y(
	AK38								١,	IIIC 2 0 a		Ye
	AL38								<i></i>	 Ub & U /	002	Y
	AM38					-			Techn	ology Cente	r 2600	Y
										ļ		
	AN	<u>38</u>	Stafford, K.R. Vol. SC-9, No				olithic Sample/Hold Am ber 1974).	nplifier,	' IEEE Journa	l of Solid-Stat	le Circuits,	IEEE
	AO	38	Staruk, W. Jr 211, 213, 215				ı Rates," <i>Defense Elec</i> 1985).	tronics	, EW Commur	nications, Vol.	. 17, No. 5,	pp.
	AP	<u>38</u>	Stephenson, pp. 106-110 (ultiple	RF signals requires an	optimu	ım sampling ra	ate," <i>Electron</i>	<i>ics</i> , McGra	w-Hi
	AQ	<u>38</u>					e for Statistically Varyin No. 11, pp. 933-938 (N			ew of Scientifi	ic Instrume	nts,
	AR	38					nultipath microwave ch irch-April 1989).	nannels	," Radio Scier	oce, Americar	ı Geophysi	cal
EXAMINER	<u></u>		<u></u>			···			DATE CONS	IDERED		

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CL	ASS	SUB- CLASS	FILING D	ATE
	AA39	+	03,854	05/19	999	Abe	et al.	45		575		
110.	AB39	+	05,449	05/19			ouchi <i>et al.</i>	34		925.69		
	AC39	5,9	07,149	05/1	999	Marc	kini	23	5	487		
	AD39	5,9	07,197	05/1	999	Faul	(30	7	119		
	AE39	5,9	11,116	06/19	999	Noss	witz	45	5	83		
	AF39	5,9	11,123	06/19	999	Shaf	er et al.	45	5	554		
•	AG39	5,9	14,622	06/19	999		Inoue		7	172 678		
	AH39	—	20,199	07/19	999	Sauer		32				
	Al39	5,94	43,370	08/19	999	Smith		37	5	334		
					FOREIGN	PATI	ENT DOCUMENTS				I	
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLA	ATION
	AJ39											Yes No
	AK39									RECEN	/FD	Yes No
	AL39									AUG 2 0		Yes No
	AM39								Tect	Mology Cen	L 302	Yes No
		<u> </u>	ОТНІ	ER (Inc	cluding Auth	hor, Ti	tle, Date, Pertinent Pa	ges, etc.)		THE PARTY OF THE P	OF 2000	
	AN	<u>39</u>	Takano, T., " (1984).	NOVE	L GaAs Pet F	Phase	Detector Operable To k	(a Band," <i>IE</i>	EE MT-	-S Digest, IEE	E, pp. 381-	383
	AO	<u>39</u>	Tan, M.A., "B Systems- I: F 275 (April 19	undan	ratic Transco nental Theory	nducta y and	ance Switched-Capacito Applications, IEEE Circu	r Filters," <i>IE</i> uits and Sys	EE Trai	nsactions on C ociety, Vol. 40,	Circuits and No. 4, pp.	272-
	АР	<u>39</u>					stem AM Stereo Decode cs Society, Vol. CE-32,					
	AQ	<u>39</u>	Tawfik, A.N., Electronics L	"Ampl etters,	itude, Duratio IEE, Vol. 28,	on and , No. 6	Predictability of Long F , pp. 571-572 (March 1:	lop Trans-H 2, 1992).	orizon)	K-band Signals	s Over the	Sea,"
	AR	<u>39</u>		al Para	meters," Eig	thth In	of Transhorizon Signal ternational Conference or ril 2, 1993).					ivision
EXAMINER			<u> </u>					DATE	CONS	SIDERED		

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DA	ATE	
	AA40	4,01	7,798	04/19	977	Gord	y et al.	325	42			
	AB40	4,03	2,847	06/19	977	Unka	ıuf	325	323			
, ,	AC40	4,25	3,067	02/19	981	Capl	es et al.	329	110			
	AD40	4,39	3,395	07/19	983	Hack	e et al.	358	23			
	AE40	4,81	6,704	03/19	989	Fiori, Jr.		307	519			
	AF40	4,84	1,265	06/19	989	Wata	nabe <i>et al.</i>	333	194			
	AG40	4,94	3,974	07/19	990	Mota	medi	375	1			
	AH40	5,11	5,409	05/19	992	Step	p	364	841			
	Al40	5,35	3,306	10/19	994	Yam	amoto	375	14			
					FOREIGN	N PATENT DOCUMENTS		· · · · · · · · · · · · · · · · · · ·				
EXAMINER INITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLA	10IT	
	AJ40	ļ									Ye N	
	AK40								RECEI		Ye N	
	AL40								AUG 2 0	<u> </u>	Ye N	
	AM40							To	echnology Cer	ter 2600	Ye N	
		•	ОТНЕ	R (Inc	cluding Auth	nor, Ti	itle, Date, Pertinent P				ν.	
	AN	<u>40</u>	International 4-7, 1989). Tawfik, A.N. a	Confe	rence on Ant	stics o	tructure of a Transhori and Propagation (ICA) of Duration and Intensit 5, No. 7, pp. 474-476 (I	P 89) Part 2: Propa	agation, IEE, pp	. 446-450 (A	April	
	АР	<u>40</u>	Path Loss, Di	uration	of Events, a	and Th	anshorizon Measureme eir Modeling," <i>IEEE Tr</i> bl. 41, No. 11, pp. 1491	ansactions on Ante	ennas and Prop			
	AQ	<u>40</u>	Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," <i>Proceedings of the IEE</i> IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).									
	_		<u> </u>									

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	IE		CLASS	SUB- CLASS	FILING DA	ATE
	AA41	5,5	15,014	05/1	996	Trou	tman		332	178		
	AB41	5,56	63,550	10/1	996	Toth			329	347		
_	AC41	5,5	74,755	11/1	996	Pers	ico	;	375	295		
	AD41	5,60	04,592	02/1	997	Kotic	lis <i>et al.</i>		356	357		
	AE41	5,63	38,396	06/1	997	Klim	ek	:	372	92		
	AF41	5,6	75,392	10/1	997	Naye	ebi <i>et al.</i>	;	348	584		
	AG41	5,69	94,096	12/1	997	Ushi	roku <i>et al</i> .	;	333	195	ļ	
	AH41	5,75	57,870	05/1	998	Miya	et al.		375	367		
	Al41	5,76	68,323	06/1	998	Kroe	ger <i>et al</i> .	;	375	355	<u> </u>	
		_			FOREIGN	PAT	ENT DOCUMENTS					
EXAMINER INITIAL		DO	CUMENT NUM	IBER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLA	TION
·	AJ41									RECE	1 1 gran gan	Yes No
	AK41								-	TILOE	TVED	Yes
		\bot					ļ			AUG 2	0 2002	No
	AL41								-			Yes No
	AM41								·	Technology C	enter 260	() Yes
	<u> </u>		ОТН	ER (In	cluding Auth	nor, T	itle, Date, Pertinent P	ages, etc.)		!	-	
	AN	41					ve Mixer," <i>16th Europea</i> per 8-12, 1986).	an Microwa	ve Confe	rence, Microw	ave Exhibitio	ons
	AO	<u>41</u>	Transactions	on Ul	rasonics, Fei	rroele	Signal Analysis Based ctrics, and Frequency (o. 1, pp. 1-3 (January 1	Control, IEI				
	АР	<u>41</u>	Tsividis, Y. a (1985).	nd Ant	ognetti, P. (E	Ed.), <i>D</i>	esign of MOS VLSI Cir	rcuits for To	elecomm	<i>unications</i> , Pre	entice-Hall, p	o. 304
	AQ	<u>41</u>	Tsividis, Y., 'IEEE, Vol. 7				nd Analysis of Switche gust 1983).	d-Capacito	r Circuits	," Proceedings	s of the IEEE	Ξ,
	AR	<u>41</u>	and 2.6 Ghz	Band F	Radio Commi	unicat	tudy on a Direct Conve ion Systems," <i>41st IEEI</i> 7-462 (May 19-22, 1991	E Vehicula	eiver Fron Techno	nt-End for 280 logy Conference	MHZ, 900 M ce, IEEE	1HZ,
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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB- CLASS	FILING DA	ATE
	AA42	5,77	70,985	06/19	998	Ushi	roku <i>et al</i> .		333	193		
	AB42	5,77	78,022	07/19	98	Wall	ey		375	206		
	AC42	5,81	12,546	09/19	98	Zhou	et al.		370	342		
	AD42	5,81	18,869	10/19	98	Miya	et al.		375	206		
·	AE42	5,84	14,449	12/19	98	Abeno et al.		_	332	105		
·	AF42	5,87	⁷ 2,446	02/19	999	Cranford, Jr. et al.		-	323	315		
	AG42	5,90	9,447	06/19	999	Cox	et al.		370	508		
	AH42	5,93	33,467	08/19	999	Sehi	er et al.		375	350		
	Al42	5,95	2,895	09/19	999	McCune, Jr. et al.			332	128		
					FOREIGN	I PATI	ENT DOCUMENTS					
EXAMINER INITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATIO	
	AJ42									DECE	1	Yes No
	AK42									RECE		Yes No
	AL42									AUG 2		Yes No
	AM42								16	chnology C	enter 260) Yes No
		1	OTUE	D (In	ludina Aut	hor T	tle, Date, Pertinent Pa			<u>. </u>		- 110
	AN	<u>42</u>					d Subpicosend Optoele Digest, IEEE, pp. 597-60				ure High Sp	eed
19-1	AO	<u>42</u>					signal level distribution o -1146 (May 28, 1998).	due to t	ropospheric s	scintillation," <i>I</i>	Electronics	
	АР	<u>42</u>	Vasseur, H. a Electronics Le	nd Va	nhoenacker, IEE, Vol. 34	D., "C , No. 4	haracterization of tropo , pp. 318-319 (Februar	ospheric y 19, 19	: turbulent lay 198).	ers from radi	osonde data	ı,"
	AQ	<u>42</u>	Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society, Vol. 46, No. pp. 1027-1039 (November 1997).									
	AR	<u>42</u>		Modula	<i>ator</i> , Thesis t	for Deg	Receiver Architecture us gree of Master's of Engi					n
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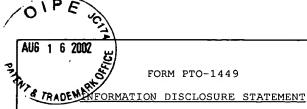
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					U.S. P.	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DAT	======================================	NAM	E	CLASS	SUB- CLASS	FILING DA	TE
	AA43	5,96	60,033	09/19	999	Shib	ano <i>et al</i> .	375	207		
	AB43	6,04	11,073	03/20	000	Davi	dovici <i>et al.</i>	375	148		
	AC43	6,05	54,889	04/20	000	Koba	yashi	327	357		
	AD43	6,08	34,922	07/20	000	Zhou	et al.	375	316		
	AE43	6,12	25,271	09/20	000	Row	and <i>et al</i> .	455	313		
	AF43	6,14	17,340	11/20	000	Levy		250	214 R		
	AG43	6,14	17,763	11/20	000	Stein	lechner	356	484		
	AH43	6,15	50,890	11/20	000	Dam	gaard et al.	331	14		
	Al43	5,12	26,682	06/19	992	Wein	berg <i>et al</i> .	329	304		
	·				FOREIGN PATENT DOCUMENTS						- •
EXAMINER INITIAL		DOG	CUMENT NUME	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLA	TION
	AJ43									_	Yes No
	AK43								RECEI		Yes No
	AL43					· -			AUG 2 0	2002	Yes No
	AM43							Tecl	nology Ce	nter 2600	Yes No
			OTHE	R (Inc	luding Auth	nor, Ti	tle, Date, Pertinent Pages, o	etc.)			
	AN	<u>43</u>	International (17, 1997).	Confer	ence on Ant	ennas	ective MM-Wave Satellite Dov and Propagation, Electronics	Division of the	e IEE, pp. 2.9	8-2.101 (Apr	Tenth ril 14-
	AO	<u>43</u>	Proceedings I pp. 8-1 - 8-16	No. 34	6: Character	ristics	of the Lower Atmosphere Influ	uencing Radio	Wave Propag	gation, AGAF	RD,
	АР	<u>43</u>	Vilar, E. and S IEEE Transac	Smith, etions	H., "A Theor on Antennas	retical and F	and Experimental Study of Ai Propagation, IEEE, Vol. AP-34	ngular Scintillat I, No. 1, pp. 2-1	ions in Earth 10 (January 1	Space Path: 986).	s,"
	AQ	<u>43</u>	Vilar, E. et al., Antennas and	, "A W I Propa	ide Band Tra agation, Elec	anshor tronic:	izon Experiment at 11.6 Ghz, s Division of the IEE, pp. 441-	" <i>Eighth Intern</i> a 445 (March 30	ational Confe - April 2, 199	rence on 3).	
	AR	<u>43</u>	Vilar, E. and N 8, No. 20, pp.				de Dependence of Frequency 2).	in Oscillators,	' Electronics	Letters, IEE,	Vol.
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	AA44	5,841,	811	11/19	98	Song			375	235	
	AB44	4,051,	475	09/19	977	Cam	pbell		343	180	
	AC44	5,953,	642	09/19	999	Feldt	keller <i>et al.</i>		455	195.1	
	AD44	4,653,	117	03/19	987	Heck			455	209	
	AE44	5,859,	878	01/19	999	Phillips et al.			375	316	
	AF44	5,894,	496	04/19	999	Jone	s		455	126	
	AG44	5,915,	278	06/19	99	Mallie	ck		73	658	
	AH44	6,028,	887	02/20	000	Harri	son <i>et al.</i>		375	206	
	Al44	6,081,0	691	06/20	000	Rena	rd <i>et al.</i>	455		12.1	
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	AN	t t	urbulence," F	Procee	dings of the	25 th Ei	vave receiver system for uropean Microwave Cor and Modeling of Time Info assections on Communic	tervals	e, Nexus Ho	use, pp. 114-1	19 (1995).
	AP	44	No. 9, pp. 130	06-131 , "Angl	2 (Septembe	er 199 ——— Fluctua	ations in High and Low E tion (ICAP 85), Electron	Elevati	on Earth Spa	ce Paths," Fo	urth Internationa
	AQ						A Telecommunications s n to Undergraduates, IE				rision Colloquiun
	AR	44 E		ivision			ve Beacon Package and RS- Communications E				
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	AA45	6,1	21,819	09/2	000	Tray	lor		327	359		-
	AB45	1 -	44,236	11/2	000	+	et al.		327	113		
	AC45	6,14	44,846	11/2	000	Dure	ec		455	323		
	AD45	6,1	75,728 B1	01/2	001	Mita	ma		455	323		
	AE45	5,70	05,949	01/1	998	Alely	runas <i>et al.</i>		329	304		
	AF45	5,88	33,548	03/1	999	Assa	ard et al.		329	306		
	AG45	4,48	B4,143	11/1	984	Fren	ch et al.		329	50		
	AH45	5,84	41,324	11/19	998	Willi	ams	331		17		
	Al45	4,8	55,894	08/19	989	Asal	ni et al.		363	157		
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	AN	<u>45</u>	Vilar, E. and Electronics L	Moulsl etters,	ey, T.J., "Co IEE, Vol. 21	ommer I, No.	nt and Reply: Probability 14, pp. 620-622 (July 4,	Density F 1985).	Function o	of Amplitude Sc	sintillations,"	
	AO	<u>45</u>	Vilar, E. et al. Letters, IEE,	, "Con Vol. 28	nparison of I 3, No. 20, pp	Rainfa 5. 1922	ll Rate Duration Distribut ?-1924 (September 24, 1	ions for II 992).	LE-IFE an	nd Barcelona,"	Electronics	
	АР	<u>45</u>	Vilar, E., "De No. 9, pp. 73	oolariz 2-733	ation and Fi (April 25, 19	eld Tra 191).	ansmittances in Indoor C	ommunic	ations," <i>E</i>	Electronics Lett	ers, IEE, Vo	l. 2
	AQ	<u>45</u>		Intern	ational Conf		Dependence of Amplitude on Antennas and Propa					
• , ,	AR	<u>45</u>				ystem and Measurements of Transhorizon ce, Microwave Exhibitions and Publishers						
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FILING DATE May 16, 2001 2681 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT DATE NAME **CLASS** FILING DATE SUB-NUMBER CLASS AA46 5,319,799 06/1994 Morita 455 78 **AB46** 5,801,654 09/1998 Traylor 341 144 AC46 5,369,404 11/1994 Galton 341 143 AD46 3,716,730 02/1973 Cerny, Jr. 307 295 AE46 4,080,573 03/1978 Howell 325 439 AF46 06/1982 4,334,324 Hoover 455 333 AG46 4,369,522 01/1983 Cerny, Jr. et al. 455 333 **AH46** 5,465,418 11/1995 Zhou et al. 455 332 A146 5,513,389 04/1996 Reeser et al. 455 311 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-**TRANSLATION** AJ46 Yes No AK46 Yes No Technology Center 2600 AL46 Yes No AM46 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," *Proceedings of the 4th European Microwave Conference*, Microwave Exhibitions and Publishers, pp. 202-206 (September 10-13, AN 46 1974). Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," IEEE Transactions on Antennas and Propagation, IEEE Antennas and AO 46 Propagation Society, Vol. AP-32, No. 4, pp. 340-346 (April 1984). Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," ΑP <u>46</u> Electronics Letters, IEE, Vol. 7, No. 18, pp. 566-568 (September 9, 1971). Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the AQ Millimetre Band," Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE, pp. 46 5/1-5/8 (January 17, 1991). Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and AR 46 Limitations," Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE, 5 pages (January 23, 1986). **EXAMINER** DATE CONSIDERED

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	AA47	5,9	59,850	09/1	999	Lim		30	53	17	
	AB47	5,1	57,687	10/19	992	Tym	es	3	75	1	
	AC47	5,9	45,660	08/1	999	Nak	asuji <i>et al.</i>	2	35	462.46	
	AD47		91,939	07/20		Ban	· · · · · · · · · · · · · · · · · · ·		55	102	ļ
	AE47	6,0	91,941	07/20		i	yama <i>et al</i> .		55	126	1
	AF47		98,886	08/20		+	t et al.	 	35	472.01	
	AG47	1	15,475 B1	04/20		+	erson <i>et al</i> .		1 5	173 RE	CEIVED
	AH47	1	49,706	04/20		Cook et al.			55	313	PLIVED.
	A147	6,00	61,551	05/20		Sorrells et al.		455		118 AUG	1 2 0 2002 -
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	AJ47 AK47 AL47										Ye N
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	AM47										Ye: No
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	AN	<u>47</u>	Vilar, E. and IEE, Vol. 33,	Senin, No. 22	S., "Propag 2, pp. 1901-1	ation ;	phase noise identified usin October 23, 1997).	ng 40 Ghz	satellite	downlink," <i>El</i>	ectronics Letters
	АО	<u>47</u>	(Barcelona) a	and Tro	opical (Belen	n) Red	ion: Dependence Upon R gions," <i>Tenth International</i> 230-2.233 (April 14-17, 19	Conferer	ize Distri Ice on Al	bution in Tem ntennas and F	perate Propagation,
	АР	<u>47</u>	AGARD Con	ference	e Proceeding	gs No.	Modeling and Measurem 332: <i>Propagation Aspect</i> October 18-22, 1982).				
	AQ	<u>47</u>	Vilar, E., "Soi on Satellite C 1975).	me Lin Commu	nitations on I <i>inication</i> Sys	Digital stems	Transmission Through Tu Technology, Electronics D	urbulent A Division of	tmosphe the IEE,	re," <i>Internatio</i> pp. 169-187	nal Conference (April 7-10,
	Vilar, E. and Matthews, P.A. AR 47 International Conference on 1978).										
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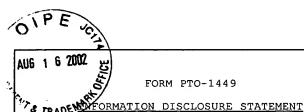
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	AA48	6,06	61,555	05/20	000	Bultr	nan <i>et al.</i>		455	313	
	AB48	6,09	91,940	07/20	000	Sorre	ells <i>et al</i> .		455	118	
	AC48	6,26	66,518 B1	07/20	001	Sorre	ells <i>et al</i> .		455	118	08/18/1999
	AD48	6,35	53,735 B1	03/20	002	Sorre	ells <i>et al</i> .		455	118	08/23/1999
	AE48	6,37	70,371 B1	04/20	002	Sorre	ells <i>et al</i> .		455	323	03/03/1999
	AF48	5,62	28,055	05/19	997	Steir			455	89 RE	EIVED
	AG48	5,67	78,220	10/19	997	Four	nier		455	302	LIVED
_	AH48	5,92	26,065	07/19	999	Wak	ai <i>et al</i> .		329	304 AUG	2 0 2002
	Al48	3,62	22,885	11/19	971	Oberdorf et al.			325	40	
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	AJ48					, ·· ·					Ye N
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	AN	<u>48</u>	Vilar, E. et al. Antennas and	, "Wid d Prop	eband Char agation, Ele	acteriz ctronic	ation of Scattering Chai s Division of the IEE, pp	nnels," o. 2.353	Tenth Interna 3-2.358 (Apri	ational Confe l 14-17, 1997	rence on).
	AO	<u>48</u>	Vollmer, A., " and 56 (July (eceiver	Fits on Two Chips," <i>Ele</i>	ectronic	: <i>Design</i> , Per	nton Publishir	ng, pp. 50, 52, 54
	АР	<u>48</u>	Voltage and 1		Resolution in	Digitiz	ing Oscilloscopes: Appl	lication	Note 348, H	ewlett Packaı	rd, pp. 1-11
	AQ	<u>48</u>		roceed	lings of the	19th Eu	o the Simultaneous Mer ropean Microwave Con 9).				
	AR	<u>48</u>	Wan, K.W. ei Synthesis of pp. 331-335 (Oscilla	tor Phase N	riance: loise,"	s and Autoregressive/M Proceedings Of the 43°°	loving A Annua	Average Algo al Symposiun	rithm for the	Measurement and Cy Control, IEEE,
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ATTY. DOCKET NO. 1744.1260001

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	AA49	4,48	33,017	11/19	984	Ham	pel <i>et al.</i>	382	2	17		
	AB49	1	21,534 B1	07/20	002	•	et al.	455	5	313	08/18/1999	
	AC49	6,33	30,244 B1	12/20	001	Swar	tz et al.	370)	401RFC	EN/8/598	
	AD49	4,38	34,357	05/19	983	deBu	da et al.	375	5	81	-IVED	
	AE49	4,47	0,145	09/19	984	Willia	ams	375	5	1 AUG 2	0 2002	
	AF49	 	00,680	02/19	997	Mishi	ima et al.	375	5	327	•	
	AG49	+	06,731	02/19	997	Pace	et al.	455	 5	echnology 260	Center 2600	
	AH49		0,670	02/19			y et al.	455		304		
	Al49	1	4,279 B1	11/20		Mohi	•	455		304	06/29/1998	
	171170	10,01	7,210 01	1,72			TENT DOCUMENTS		<u> </u>	1004	00/20/1000	
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	AN	<u>49</u>	Wan, K.W. e. High Bit Rate 1993).	t al., "V UHF/	Nideband Tr SHF Channe	anshoi el Sour	rizon Channel Sounder aders - Technology and	at 11 Ghz," <i>E</i> <i>Measuremei</i>	Electror nt, IEE,	nics Division C pp. 3/1-3/5 (D	olloquium on ecember 3,	
	AO	<u>49</u>	Wang, H., "A Solid-State C	1-V M	lultigigahertz Society, Vol	RF M . 33, N	ixer Core in 0.5 - μm CN lo. 12, pp. 2265-2267 (D	MOS," <i>IEEE</i> December 19	Journai 198).	of Solid-State	Circuits, IEEE	
	AP	<u>49</u>		Digital I	Processing o	of Signa	sion and Signal Process als in Communications,					
	AQ	<u>49</u>	Weast, R.C. 485 (1964).	et al. (Ed.), <i>Handb</i> o	ook of	<i>Mathematical Tables</i> , S	econd Editio	n, The	Chemical Rub	ber Co., pp. 480	
	AR	<u>49</u>					ulation Using Zero Cros 065 (July 1981).	sings," <i>IEEE</i>	" IEEE Transactions on Communications,			

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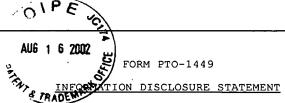
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	AA50	09/5	25,615			Sorre	ells <i>et al.</i>			03/14/2000		
	AB50	10/0	86,367			Sorre	ells et al.		PEO	03/04/2002		
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	AN	<u>50</u>	Worthman, W	/., "Co	nvergence	Again	," <i>RF Design</i> , Primedia, p.	102 (March 19	99).			
	AO	<u>50</u>	Young, I.A. ai	nd Hoo of Sol	iges, D.A., " id-State Circ	MOS S cuits, II	Switched-Capacitor Analog EEE, Vol. SC-14, No. 6, pp.	Sampled-Data 1020-1033 (D	Direct-Form R ecember 1979)	ecursive Filters,"		
	AP	<u>50</u>	Translation of	Speci	ification and	Claim	s of FR Patent No. 2245130), 3 pages.				
	AQ	<u>50</u>	Fest, Jean-Pi 54, pp. 40-42				VN Revolutionne Le Recept	eur Radio," <i>El</i>	ectronique, JM.	J (Publisher), No.		
	AR	<u>50</u>	Translation of	DE P	atent No. 35	41 03	1 A1, 22 pages.					
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	AO	<u>51</u>	Fest, Jean-Pi 54, 3 pages (l	erre, " Decen	The A/D Control	nverte (Trans	r Revolutionizes the Ra slation of Doc. AQ50).	adio Receive	ər," <i>Electr</i> i	onique, JMJ	(Publisher), No.			
	AP	<u>51</u>	Translation of German Patent No. DE 197 35 798 C1, 8 pages.											
	AQ	<u>51</u>	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-154 (April 30, 1956).											
	AR	<u>51</u>	Miki, S. and N (April 30, 195	lagaha 6). (Pa	ama, R., <i>Mo</i> artial Transla	dulatio	on System II, Common f Doc. AQ51).	Edition 7, K	yoritsu Pu	blishing Co.,	Ltd., pp. 146-149			
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	AN	<u>52</u>	Rabiner, L.R. and 40-46 (19	and G 175).	Gold, B., The	eory An	d Application Of Digita	al Signa	al Processing,	Prentice-Hall,	Inc., pp. xiii-xii		
	AO	<u>52</u>	English-langu Pages (Febru	English-language Abstract of Japanese Patent Publication No. 08-032556, from http://www1.ipdl.jpo.go.jp, 2 Pages (February 2, 1996 - Date of publication of application).									
AP English-language Abstract of Japanese Patent Publication No. 08-139524, from http://www1.ipdl.jpo. Pages (May 31, 1996 - Date of publication of application).									dl.jpo.go.jp, 2				
	AQ	<u>52</u>	English-langu Pages (Augus	English-language Abstract of Japanese Patent Publication No. 59-144249, from http://www1.ipdl.jpo.go.jp, 2 Pages (August 18, 1984 - Date of publication of application).									
	AR	<u>52</u>	English-language Abstract of Japanese Patent Publication No. 63-054002, from http://www1.ipdl.jpo.go.jp, 2 Pages (March 8, 1988 - Date of publication of application).										
EXAMINER	1		.1		-				DATE CONS	IDERED			

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TRADEWART	5)	DISCLOSURE S	TATEME
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 ATTY. DOCKET NO. 1744.1260001	APPLICATION 09/855,851	NO.				
APPLICANT Sorrells <i>et al.</i>						
FILING DATE	GROUP					

							y 16, 2001		2681		
					U.S. F	PATEN	T DOCUMENTS				
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		•	ОТН	IER (In	cluding Au	thor, T	itle, Date, Pertinent Pa	ges, e	etc.)		•
	AN	<u>53</u>	English-lang Pages (Aug	juage A ust 23,	bstract of Jate	apanes of pub	e Patent Publication No lication of application).	o. 06-2	37276, from <i>l</i>	http://www1.ipd	dl.jpo.go.jp, 2
	AO	<u>53</u>	English-lang Pages (Janu	uage A uary 23,	bstract of Ja 1996 - Date	apanes e of pu	e Patent Publication No blication of application).	o. 08-0	23359, from <i>l</i>	http://www1.ipo	dl.jpo.go.jp, 2
AP 53 Translation of Japanese Patent Publication No. 47-2314, 7 pages. AQ 53 Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages.											
AR English-language Abstract of Japanese Patent Publication No. 58-133004, from http:// Pages (August 8, 1993 - Date of publication of application).									http://www1.ipe	dl.jpo.go.jp, 2	
EXAMINER			<u> </u>						DATE CONS	SIDERED	

MATION DISCLOSURE STATEMENT

	Page 34 Of 36
ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

MADE							y 16, 2001		2681		
					U.S. F	PATEN	T DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER			DATE		NAME			CLASS	SUB- CLASS	FILING DATE
	AA54										
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	AM54										Y
			ОТН	R (In	L	thor T	l itle, Date, Pertinent P	anes e	etc)		1
•	AN	<u>54</u>	English-langu Pages (April	uage A 4, 198	bstract of J 5 - Date of p	apanes publica	e Patent Publication N tion of application).	lo. 60-0	58705, from <i>f</i>	nttp://www1.ip	odl.jpo.go.jp, 2
	AO	<u>54</u>	English-language Abstract of Japanese Patent Publication No. 04-123614, from http://www1.ipdl.jpo.go.jp, 2 Pages (April 23, 1992 - Date of publication of application).								
AP English-language Abstract of Japanese Patent Publication No. 04-127601, from http Pages (April 28, 1992 - Date of publication of application). AQ English-language Abstract of Japanese Patent Publication No. 05-175730, from http Pages (July 13, 1993 - Date of publication of application).								nttp://www1.ip	odl.jpo.go.jp, 2		
								nttp://www1.ip	odl.jpo.go.jp, 2		
, , , , , , , , , , , , , , , , , , ,	AR	<u>54</u>	English-langu Pages (July	ıage A 3, 199	bstract of Ja 3 - Date of	apanes publica	e Patent Publication N tion of application).	lo. 05-1	75734, from <i>t</i>	nttp://www1.ip	odl.jpo.go.jp, 2
EXAMINER									DATE CONS	SIDERED	· · · · · · · · · · · · · · · · · · ·

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
APPLICANT Sorrells et al.	
FILING DATE	GROUP

						Ma	y 16, 2001		2681				
					U.S. P	ATEN	T DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER		DAT	DATE		NAME		CLASS	SUB- CLASS	FILING DATE			
	AA55												
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	AJ55					·					Yes No		
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	AM55										Yes No		
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	AN	English-language Abstract of Japanese Patent Publication No. 07-154344, from http://www1.ipdl.jpo.go.jp, 2 Pages (June 16, 1995 - Date of publication of application).											
	AO	<u>55</u>	English-langı Pages (Nove	English-language Abstract of Japanese Patent Publication No. 07-307620, from http://www1.ipdl.jpo.go.jp, 2 Pages (November 21, 1995 - Date of publication of application).									
AP 55 Oppenheim, A.V. and Schafer, R.W., <i>Digital Signal Processing</i> , Prentice-I 136-165 (1975).							ntice-Hall, pp. v	vii-x, 6-35, 45	5-78, 87-121 and				
	AQ	<u>55</u>	English-langu Page (May 1	uage A 9, 1980	e Abstract of Japanese Patent Publication No. 55-066057, from http://www1.ipdl.jpo.go.jp, 1 980 - Date of publication of application).								
	AR 55 English-language Abstract of Japanese Patent Publication No. 63-065587, from http://www1.ipdl.jpo.go.jp, Page (March 24, 1988 - Date of publication of application).										II.jpo.go.jp, 1		
EXAMINER	1								DATE CONSI	DERED			

AUG 1 6 2002 W

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

П	ATTY. DOCKET NO. 1744.1260001	APPLICATION NO. 09/855,851
ı	APPLICANT Sorrells et al.	
	FILING DATE	GROUP

						Ma	y 16, 2001		2681		
					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DATE		NAM			CLASS	SUB- CLASS	FILING DATE
	AA56	†									
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	AM56										Yes No
			OTHE	ER (Inc	cluding Aut	hor, T	itle, Date, Pertinent F	Pages, e	∍tc.)		
	AN	<u>56</u>	English-langu Page (June 2	age A' 7, 198	bstract of Ja 8 - Date of p	panes	se Patent Publication Nation of application).	No. 63-1	53691, from <i>ht</i>	tp://www1.ipa	11.jpo.go.jp, 1
	AO	<u>56</u>									
	АР	<u>56</u>									
	AQ	<u>56</u>									
	AR	<u>56</u>									
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